

## CURRICULUM VITAE

### **Ebrahim Rastad**

Personal data: Birth date: 1946  
Place of Birth: Marand, Iran  
Nationality: Iranian  
Marital Status: Married  
Children: Five

Present position: Professor of Economic Geology  
Tarbiat Modares University

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## **Education and Degrees**

- 1969            B.Sc. (University of Tehran, Tehran, Iran)
- 1978            M.Sc. (Heidelberg University, Heidelberg, Germany)
- 1981            Ph.D. (Heidelberg University, Heidelberg, Germany).  
Thesis title: “Geological, mineralogical, and ore facies investigations on the Lower Cretaceous stratabound Zn-Pb-(Ba-Cu) deposits of the Irankuh mountain range, Esfahan, west Central Iran”  
(Supervisor: Prof. Christian Amstutz)

## **Courses Taught:**

Stratiform and Stratabound Ore Deposits	PhD
Magmatic Sulfide Deposits	PhD
Metallogeny in Space and Time	PhD
Sedimentary Ore Deposits	MSc
Igneous and Metamorphic Ore Deposits	MSc
Ore Deposits of Iran and Their Genesis	MSc

## **Membership of Scientific Societies:**

- Geological Society of Iran (GSOI)
- Iranian Society of Economic Geology (ISEG)
- Iranian Society of Crystallography and Mineralogy (ISCM)

## **Referee for Journal Articles Submitted to:**

- Iranian Journal of Crystallography and Mineralogy
- Iranian Journal of Science and Technology
- Iranian Scientific Quarterly Journal of Geosciences
- Journal of Science of Ferdowsi University of Mashhad
- Journal of Science of Shahid Chamran University of Ahwaz
- Journal of Science of Tarbiat Moalem University
- Journal of Science of the University of Tehran
- Journal of Sciences of the Islamic Republic of Iran

### **Research Interests:**

Sedimentary-diagenetic ore deposits, especially:

- Mississippi Valley Type (MVT)
- Sedimentary-Exhalative (Sedex) ore deposits
- Volcanogenic Massive Sulfide (VMS) deposits

Gold deposits, especially:

- Epithermal gold deposits
- Orogenic gold deposits
- Intrusion-related gold deposits

### **Publications:**

#### **A) Books:**

Rastad, E., Mousivand, F. (2016): Volcanogenic massive sulfide deposits of Iran, Geological Survey and Mineral Exploration of Iran, in Persian.

#### **B) International Journal Papers:**

- 1) Momenzadeh, M., Shafighi, S., Rastad, E., Amstutz, G.C. (1979): The Ahangaran lead-silver deposit, SE-Malayer, west Central Iran: Geology and geochemistry of the ore bearing units with a contribution to the ore genesis, *Mineralium Deposita*, v. 14, p. 323-341.
- 2) Rastad, E., Fontboté, L., Amstutz, G.C. (1980): Relations between tidal-flat facies and diagenetic ore fabrics in the stratabound Zn-Pb (-Ba-Cu) deposits of Irankuh, Esfahan, west Central Iran, *Universidad de Barcelona*, v. 34, p. 311-323.
- 3) Fontboté, L., Rastad, E. (1981): Anhydrit und gips Pseudomorphosen als Schlüssel zur Erzlagerstattendeutung, *Lapis*, v. 6, p. 12-14.
- 4) Rachidnejad-Omran, N., Emami, M.H., Sabzehei, M., Rastad, E., Bellon, H., Pique, A. (2002): Lithostratigraphie et histoire paleozoique a Paleocene des complexes metamorphiques de la region de Muteh, zone de Sanandaj-Sirjan (Iran meridional), *Comptes Rendus Geoscience*, v. 334, p. 1185-1191.

- 5) Rastad, E., Monazami-Miralipour, A., Momenzadeh, M. (2002): Sheikh-Ali copper deposit, a Cyprus-type VMS deposit in southeast Iran, *Journal of Sciences of the Islamic Republic of Iran, University of Tehran*, v. 13(1), p. 51-63.
- 6) Ahmadipour, H., Sabzehei, M., Whitechurch, H., Rastad, E., Emami, M.H. (2003): Soghan complex as an evidence for paleospreading center and mantle diapirism in Sanandaj-Sirjan zone (south-east Iran), *Journal of Sciences of the Islamic Republic of Iran, University of Tehran*, v. 14(2), p. 157-172.
- 7) Fard, M., Rastad, E., Ghaderi, M. (2006): Epithermal gold and base metal mineralization at Gandy, north of Central Iran and the role of rhyolitic intrusions, *Journal of Sciences of the Islamic Republic of Iran, University of Tehran*, v. 17(4), p. 327-335.
- 8) Mousivand, F., Rastad, E., Hoshino, K., Watanabe, M. (2007): The Bavanat Cu-Zn-Ag orebody: first recognition of a Besshi-type VMS deposit in Iran, *N. Jb. Miner. Abh.*, v. 183/3, p. 297-315.
- 9) Aliyari, F., Rastad, E., Zengqian, H. (2007): Orogenic gold mineralization in the Qolqoleh deposit, northwestern Iran, *Resource Geology*, v. 57(3), p. 269-282.
- 10) Moosavi, S.A., Heidari, S.M., Rastad, E., Esfahaninejad, M., Rashidnejad-Omran, N. (2008): A brief review of mineral deposit types and geodynamic settings related to Neotethys in Iran, *Scientific Quarterly Journal of Geosciences, Geol. Min. Expl. Surv. Iran*, v. 17, no. 1, p. 132-143.
- 11) Kouhestani, H., Rastad, E., Rashidnejad-Omran, N. (2008): Auriferous sulfides from the Chah-Bagh gold occurrence, Muteh mining district, *Journal of Sciences of the Islamic Republic of Iran*, v. 19, p. 125-136.
- 12) Aliyari, F., Rastad, E., Mohajjel, M., Arehart, G.B. (2009): Geology and geochemistry of D-O-C isotope systematics of the Qolqoleh gold deposit, northwestern Iran: implications for ore genesis. *Ore Geology Reviews*, v. 36, p. 306-314.
- 13) Mousivand, F., Rastad, E., Meffre, S., Peter, J.M., Solomon, M., Zaw, K. (2011): U-Pb geochronology and Pb isotope characteristics of the Chahgaz volcanogenic massive sulphide deposit, southern Iran. *International Geology Review*, v. 53, p. 1239-1262.
- 14) Makovicky, E., Topa, D., Tajjedin, H., Rastad, E., Yaghubpur, A. (2012): The crystal structure of guettardite, PbAsSbS<sub>4</sub>, and the twinnite-guettardite problem, *The Canadian Mineralogist*, v. 50, p. 253-265.

- 15) Aliyari, F., Rastad, E., Mohajjel, M. (2012): Gold deposits in the Sanandaj-Sirjan Zone: Orogenic gold deposits or intrusion related gold systems?, *Resource Geology*, v. 62, p. 296-315.
- 16) Rajabi, A., Rastad, E., Alfonso, P., Canet, C. (2012): Geology, ore facies, and sulphur isotopes of the Koushk vent-proximal sedimentary-exhalative deposit, Poshte-Badam Block, Central Iran, *International Geology Review*, v. 54, p. 1635-1648.
- 17) Rajabi, A., Rastad, E., Canet, C. (2012): Metallogeny of Cretaceous carbonate-hosted Zn-Pb deposits of Iran: geotectonic setting and data integration for future mineral exploration, *International Geology Review*, v. 54, p. 1649-1672.
- 18) Mousivand, F., Rastad, E., Meffre, S., Peter, J., Mohajjel, M., Zaw, K., Emami, M.H. (2012): Age and tectonic setting of the Bavanat Cu-Zn-Ag Besshi-type volcanogenic, *Mineralium Deposita*, v. 47, p. 911-931.
- 19) Boveiri, M., Rastad, E., Kojima, S., Rashidnejad Omran, N. (2013): Volcanic redbed-type copper mineralization in the Lower Cretaceous volcano-sedimentary sequence of the Keshtmahaki deposit, southern Sanandaj-Sirjan Zone, Iran, *N. Jb. Miner. Abh. (J. Min. Geochem.)*, v. 190(2), p. 107-121.
- 20) Rajabi, A., Rastad, E., Canet, C. (2013): Metallogeny of Permian–Triassic carbonate-hosted Zn–Pb and F deposits of Iran: A review for future mineral exploration, *Australian Journal of Earth Sciences*, v. 60(2), p. 197-216. DOI:10.1080/08120099.2012.754792
- 21) Aliyari, F., Rastad, E., Goldfarb, R.J., Abdollahi Sharif, J. (2014): Geochemistry of hydrothermal alteration at the Qolqoleh gold deposit, northern Sanandaj–Sirjan metamorphic belt, northwestern Iran: Vectors to high-grade ore bodies, *Journal of Geochemical Exploration*, v. 140, p. 111-125.
- 22) Kouhestani, H., Rashidnejad-Omran, N., Rastad, E., Mohajjel, M., Goldfarb, R.J., Ghaderi, M. (2014): Orogenic gold mineralization at the Chah Bagh deposit, Muteh gold district, Iran, *Journal of Asian Earth Sciences*, v. 91, p. 89-106.
- 23) Rajabi, A., Canet, C., Rastad, E., Alfonso, P. (2015): Basin evolution and stratigraphic correlation of sedimentary-exhalative Zn–Pb deposits of the Early Cambrian Zarigan–Chahmir Basin, Central Iran, *Ore Geology Reviews*, v. 64, p. 328-353. doi:10.1016/j.oregeorev.2014.07.013
- 24) Nabatian, G., Rastad, E., Neubauer, F., Honarmand, M., Ghaderi, M. (2015): Iron and Fe–Mn mineralisation in Iran: implications for Tethyan metallogeny. *Australian Journal of Earth Sciences* 62(2): 211-241.

- 25) Rajabi, A., Rastad, E., Canet, C., Alfonso, P. (2015): The early Cambrian Chahmir shale-hosted Zn-Pb deposit, Central Iran: an example of vent-proximal SEDEX mineralization, *Mineralium Deposita*, v. 50, p. 571-590.
- 26) Yarmohammadi, A., Rastad, E., Akbari, Z., Rajabi, A. (2015): Lithological and structural mapping related to sediment hosted Zn-Pb deposits in the Tiran basin, NW of Esfahan, Iran: Using ASTER and ETM images processing, *International Geoinformatics Research and Development Journal*, v. 6(3), p. 1-14.
- 27) Sholeh, A., Rastad, E., Huston, D., Gemell, J.B., Taylor, R.D. (2016): The Chahnalay low-sulfidation epithermal gold deposit, western Makran volcanic arc, southeast Iran, *Economic Geology*, v. 111, p. 619-639.
- 28) Maghfouri, S., Rastad, E., Mousivand, F., Lin, Y., Zaw, K. (2016): Geology, ore facies and Sulphur isotopes geochemistry of the Nudeh Besshi- type volcanogenic massive sulphide deposit, Southwest Sabzevar basin, Iran, *Journal of Asian Earth Sciences*, v. 125, p. 1-21.
- 29) Yarmohammadi, A., Rastad, E., Rajabi, A. (2016): Geochemistry, fluid inclusion study and genesis of the sediment-hosted Zn-Pb ( $\pm$ Ag  $\pm$ Cu) deposits of the Tiran basin, NW of Esfahan, Iran, *N. Jb. Miner. Abh. (J. Min. Geochem.)*, v. 193(2), p. 183-203.
- 30) Boveiri-Konari, M., Rastad, E., Peter, J.M. (2017): A sub-seafloor hydrothermal syn-sedimentary to early diagenetic origin for the Gushfil Zn-Pb-(Ag-Ba) deposit, south Esfahan, Iran, *N. Jb. Miner. Abh. (J. Min. Geochem.)*, v. 194(1), p. 61-90.
- 31) Maghfouri, S., Rastad, E., Mousivand, F., Choulet, F., Ye, L. (2017): Geological and geochemical constraints on the Cheshmeh-Frezi volcanogenic stratiform manganese deposit, southwest Sabzevar basin, Iran, *Ore Geology Reviews*, v. 89, p. 96-113.
- 32) Boveiri Konari, M., Rastad, E. (2018): Nature and origin of dolomitization associated with sulphide mineralization: new insights from the Tappehsorkh Zn-Pb (-Ag-Ba) deposit, Irankuh Mining District, Iran, *Geological Journal*, v. 53, p. 1-21.
- 33) Mahmoodi, P., Rastad, E., Rajabi, A., Peter, J.M. (2018): Ore facies, mineral chemical and fluid inclusion characteristics of the Hossein-Abad and Western Haft-Savaran sediment-hosted Zn-Pb deposits, Arak Mining District, Iran, *Ore Geology Reviews*, v. 95, p. 342-365.
- 34) Mousivand, F., Rastad, E., Peter, J.M., Maghfouri, S. (2018): Metallogeny of volcanogenic massive sulfide deposits of Iran, *Ore Geology Reviews*, v. 95, p. 974-1007.

**Number of Graduated PhD Students:**

7

**Number of Graduated MSc Students:**

34

**Appointments**

2017-	Professor, Tarbiat Modares University
2007-2017	Associate Professor, Tarbiat Modares University
1990-2007	Assistant Professor, Tarbiat Modares University
1981-1990	Deputy Chief of Mineral Exploration, Geological Survey of Iran
1971-1981	Metallic Deposits Expert, Geological Survey of Iran

**Some Administrative Responsibilities**

2008-	Head of Economic Geology Group, Tarbiat Modares University
1999-2005	Head of Economic Geology Group, Tarbiat Modares University
1994-1999	Head of Geology Department, Tarbiat Modares University
1990-1995	Dean of Faculty of Basic Sciences, Tarbiat Modares University

**Advisory Boards**

1997-2012	Member of Tarbiat Modares University Council
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