



Ramaz Migineishvili

Position

Al. Janelidze Institute of Geology, Department of Petrology, Volcanology, Mineralogy and Lithology, Senior Researcher.

Scientific/academic degree, title

Candidate of Geological-Mineralogical Sciences (Equivalent to Ph.D.) (1991). Title: Structure and Conditions of Formation of the Valkhokhi Lead-Zinc Deposit.

Contact information

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Education

1977-1982 – Ivane Javakishvili Tbilisi State University, Department of Geography and Geology, Geological Engineer.

Employment history

1986-1992 – Al. Janelidze Geological Institute, Department of Minerals, Junior Researcher.

1992-1997 – Al. Janelidze Geological Institute, Department of Minerals, Researcher.

1997-2000 – Al. Janelidze Geological Institute, Department of Minerals, Senior Researcher.

2000-2001 – Al. Janelidze Geological Institute, Deputy Director for Science.

2001-2006 – Al. Janelidze Geological Institute, Department of Minerals, Senior Researcher.

2006-2009 – Al. Janelidze Institute of Geology, Head of the Ore Department.

2009-2015 – Al. Janelidze Institute of Geology of Iv. Javakishvili Tbilisi State University, Department of Minerals, Geochemistry and Isotope Geochronology, Senior Researcher.

2015 – up-to-present – Al. Janelidze Institute of Geology of Iv. Javakishvili Tbilisi State University, Department of Petrology, Mineralogy, Volcanology and Lithology, Senior Researcher.

Research interests

Geology of ore deposits; Volcanology; Links between volcanic and deposit-forming processes; Geological Mapping; Structural Geology; Geographic Information Systems.

Publications

1. **R. Migineishvili** (2022). Ore veinlet sets at the Mushevani-2 gold-copper deposit, Georgia: preliminary results. *Mining Journal*, 1 (45).
2. *Gugushvili V., Beridze T., Chkhotua T., Khutsishvili S., Migineishvili R.* (2018). Volcanologic and metallogenic indicators of the stages of geodynamic development of Eurasian active margin and synvolcanic and postvolcanic block faulting exemplified by Bolnisi ore district. *Proceedings of Geological Institute of Georgian Acad Sc., New series*, v.130. 117 p. (in Georgian, in Russian, in English) ISBN 978-9941-27-934-8; ISSN 2667-9213.
<https://dspace.nplg.gov.ge/handle/1234/315256>
3. *N. Sadradze, Sh. Adamia, T. Beridze, T. Gvartadze, R. Migineishvili* (2017). Magmatism and ore formation on the example of Upper Cretaceous Bertakari and Bneli Khevi ore deposits, Bolnisi ore district, Georgia. *Geofizicheskiy Zhurnal*, v. 39, 4. Pp. 111-114.
<http://journals.uran.ua/geofizicheskiy/article/view/117579/111621>
4. *V. Gugushvili, T. Beridze, S. Khutsishvili, R. Migineishvili* (2016). Phanerozoic metallogeny of the Caucasus Region during the Tethys Ocean subduction and at the post-collision stage. *Bulletin of the Georgian National Academy of Sciences*, vol. 10, no. 3. Pp. 79-88.
5. **R. Migineishvili, T. Gvartadze** (2010). Age of the Madneuli Cu-Au deposit, Georgia: evidence from new nannoplankton data. *Bulletin of the Georgian National Academy of Sciences*, vol. 4, no.1. Pp. 85-91.
6. **R. Migineishvili, T. Gvartadze** (2009). Ore concretions of the Madneuli Cu-Au deposit. *Georgian Oil and Gas*, 25. Pp. 97-108 (in Georgian and in English).
7. *T. Gvartadze, R. Migineishvili, S. Khutsishvili* (2006). New data on the age of the Madneuli copper-gold deposit. *Georgian Oil and Gas*, v.17, pp. 33-37. (in Georgian with English abstract).
8. **R. Migineishvili** (2005). Hybrid nature of the Madneuli Cu-Au deposit, Georgia. *Geochemistry, Mineralogy and Petrology*, v. 43. Pp. 128-132. ISSN-0324-1718.
9. **R. Migineishvili** (2004). Description and typification of the Madneuli copper-gold deposit (Georgia). *Proceedings of Geological Institute of Georgian Acad Sc., New series*, v. 119. Pp. 755-769. (in Russian with English abstract). ISSN 2667-9213. ISBN 99940-781-2-7.
<https://dspace.nplg.gov.ge/handle/1234/315096>
10. **R. Migineishvili** (2002). A possible model of formation for the Madneuli copper-gold deposit. *Proceedings of Geological Institute of Georgian Acad Sc., New series*, v. 117. pp.473-480. ISSN 2667-9213 <https://dspace.nplg.gov.ge/handle/1234/315094>
11. **R. Migineishvili** (2001). Contemporaneous factors controlling formation of the Madneuli Copper-Gold deposit, Georgia. *Proceedings 4-th international symposium on Eastern Mediterranean geology, Isparta, Turkey, 21-25 May, 2001*. Pp. 229-233. ISBN: 975-7929-48-4
12. *C.J. Moon, G. Gotsiridze, V. Gugushvili, M. Kekelia, S. Kekelia, R. Migineishvili, Z. Otkhmezuri, N. Ozgur* (2001). Comparison of mineral deposits between Georgian and Turkish sectors of the Tethyan metallogenic belt. In *Piestrzynski et al (eds), Mineral Deposits at the Beginning of the 21st Century*. Pp. 309-312. ISBN 90-2651-846-3
13. **R. Migineishvili** (2001). Penecontemporaneous deformation of the Madneuli Cu-Au volcanogenic massive sulfide deposit, Georgia. In *Piestrzynski et al (eds), Mineral Deposits at the Beginning of the 21st Century*, pp. 301-304. ISBN 90-2651-846-3
14. **R. Migineishvili** (2000). Formation of a volcanic-hosted massive sulfide deposit in a shallow water setting: the Madneuli Cu-Au deposit, Georgia. In: *Gemmell JB, Pongratz J (eds) Volcanic environments and massive sulfide deposits. CODES Special Publication 3*, pp. 123-125.

15. **R. Migineishvili** (2000). Structural-Hydrodynamic model of the Valkhokhi lead-zinc deposit. Proceedings of Geological Institute of Georgian Acad Sc., New series, v. 115, 382-386. (in Russian with English abstract). ISSN 2667-9213.
16. **R. Migineishvili** (1992). Valkhokh lead-zinc deposit, Georgia: structural-petrophysic conditions of formation. Geology of Ore Deposits. V. 34, 4, pp. 92-99. (in Russian with English abstract).

Participation in scientific events

1. Interrelation of Regional Metamorphism, Volcanism, Hydrothermal Activity and Metallogeny during the Tethys Ocean Subduction and at Post-collision Stage of Eurasian Continental Margin Development. V. Gugushvili, T. Beridze, T. Chkhotua, S. Khutsishvili, **R. Migineishvili**. 15th Swiss Geoscience Meeting, Davos, Switzerland, November 17-18, 2017, Abstract Volume, pp. 80-81.
2. Magmatism and ore formation on the example of Upper Cretaceous Bertakari and Bneli Khevi Ore deposits, Bolnisi ore district, Georgia. N. Sadradze, Sh. Adamia, T. Beridze, T. Gvartadze, **R. Migineishvili**. Workshop "South Caucasus Geosciences", Kiev, October 25-29, 2017, v. 39, 4. Abstracts volume, pp. 111-114.
3. Volcanogenic copper-gold deposits of the Bolnisi Ore District. **R. Migineishvili**, M. Chokhnelidze. Volcanogenic copper-gold deposits of the Bolnisi Ore District. International workshop "Gold and base metal deposits of the Mediterranean and the South Caucasus - challenges and opportunities", Tbilisi, Georgia, November 11-15, 2012. Pp. 29-31.
4. The Madneuli Polymetallic Deposit, Georgia: Evidence for Magmatic Input in a Submarine hydrothermal System and a new Chlorite Proximity Indicator for Gold Ore. G. Gialli, R. Moritz, N. Popkhadze, V. Gugushvili, **R. Migineishvili**, G. Spangenberg. International Workshop "Gold and Base Metal Deposits of the Mediterranean and the South Caucasus - Challenges and Opportunities", Tbilisi, Georgia, November 11-15, 2012, pp. 11-12.
5. The Madneuli polymetallic deposit, Bolnisi district, Georgia: Evidence for a magmatic input in a submarine, transitional hydrothermal system. G. Gialli, R. Moritz, N. Popkhadze, V. Gugushvili, **R. Migineishvili**, G. Spangenberg. 10th Swiss Geoscience Meeting, Bern, Switzerland, November 16-17, 2012, Abstract Volume, pp. 119-120.
6. The Madneuli Polymetallic Deposit, Lesser Caucasus, Georgia: A Transitional System with Magmatic Input in a Submarine Environment. G. Gialli, R. Moritz, N. Popkhadze, V. Gugushvili, **R. Migineishvili**, G. Spangenberg. XVI Peruvian Geological Congress & SEG 2012 Conference, Lima, Peru, September 23-26, 2012. P. 38.
7. Major Cu, Au and Mo deposits of the Lesser Caucasus: Products of diverse geodynamic settings. R. Moritz, J. Mederer, M. Ovtcharova, D. Selby, M. Chiaradia, N. Popkhadze, V. Gugushvili, **R. Migineishvili**, R. Melkonyan, R. Tayan, A. Vardanyan, S. Havokimyan, V. Ramazanov, M. Mansurov. 9th Swiss Geoscience Meeting, mineralogy-petrology-Geochemistry, Zurich, Switzerland, November 11-13, 2011, Abstract Volume, pp. 100-101.
8. Chronology and possible model of formation of the Madneuli copper-gold deposit, SE Georgia. **R. Migineishvili**, T. Gvartadze. International scientific conference "Problems of geology of the Caucasus", Tbilisi, Georgia, November 25-27, 2010, Abstracts, pp. 71-73.
9. A possible model of formation for the Madneuli copper-gold deposit. **R. Migineishvili**. Programme and abstracts of SCOPES international meeting - "Recent research activities and new results about the regional geology, the geodynamics and the metallogeny of the Caucasus and the Balkans", Tbilisi, Georgia, May 27-29, 2009, p. 8.

10. Hybrid nature of the Madneuli Cu-Au deposit, Georgia. **R. Migineishvili**. Workshop of IGCP-486: "Au-Ag telluride-selenide deposits", Kiten, Bulgaria, 14-19 September, 2005. *Geochemistry, Mineralogy and Petrology*, v. 43. Pp.128-132. ISSN-0324-1718
11. Description and typification of the Madneuli copper-gold deposit (Georgia). **R. Migineishvili**. Scientific session dedicated to the 100th anniversary of acad. P. Gamkrelidze . Tbilisi, 27-29 October, 2003. *Proceedings of Geological Institute of Georgian Acad Sc., New series*, v. 119. pp. 755-769. <https://dspace.nplg.gov.ge/handle/1234/315096>
12. Contemporaneous factors controlling formation of the Madneuli Copper-Gold deposit, Georgia. **R. Migineishvili**. Proc 4-th international symposium on Eastern Mediterranean geology, Isparta, Turkey, 21-25 May, 2001. Pp. 229-233. ISBN: 975-7929-48-4
13. Comparison of mineral deposits between Georgian and Turkish sectors of the Tethyan metallogenic belt. C.J. Moon, G. Gotsiridze, V. Gugushvili, M. Kekelia, S. Kekelia, **R. Migineishvili**, Z. Otkhmezuri, N. Ozgur. *Mineral Deposits at the Beginning of the 21st Century*. 6th Biennial SGA-SEG Meeting Krakow, Poland, 26 - 29 August, 2001. Pp. 309-312. ISBN 90-2651-846-3.
14. Penecontemporaneous deformation of the Madneuli Cu-Au volcanogenic massive sulfide deposit, Georgia. **R. Migineishvili**. *Mineral Deposits at the Beginning of the 21st Century*. 6th Biennial SGA-SEG Meeting Krakow, Poland, 26 - 29 August, 2001. Pp. 301-304. ISBN 90-2651-846-3
15. Formation of a volcanic-hosted massive sulfide deposit in a shallow water setting: the Madneuli Cu-Au deposit, Georgia. **R. Migineishvili**. *Volcanic environments and massive sulfide deposits*. CODES Special Publication 3; Intern. Conf. Tasmania, Australia, 16-19 November 2000, pp. 123-125.
16. Structural-hydrodynamic model of the Valkhokh lead-zinc deposit. **R. Migineishvili**. *Materials of Scientific Sessions dedicated to 110th anniversary of acad. Al. Janelidze, Tbilisi, 2000*. *Proceedings of Geological Institute of Georgian Acad Sc., New series*, v. 115. Pp. 382-386. ISSN 2667-9213
17. Fault zone dynamic analysis using the Danilovich method. **R. Migineishvili**. XXIII General Assambly of the European Geophysical Society in Nice, 20-24 April 1998. *Anales Geophysicae*, Supplement to volume 16. P. 82.
18. Structural analysis of tectonic movements at the Valkhokhi lead-zinc deposit. **R. Migineishvili**. Scientific session dedicated to the 70th anniversary of the Geological Institute of the Georgian Academy of Sciences, Tbilisi, 7-10 November. 1995, p. 82.
19. Hydrodynamic model of formation of Valkhokhi lead-zinc deposit. **R. Migineishvili** *Materials of the scientific session dedicated to the 60th anniversary of the Geological Society of the Republic of Georgia, Tbilisi, 1993*, pp. 70-71.
20. Structural conditions of localization of barite and pyrite-calcite mineralization at Valkhokhi lead-zinc deposit (Kvaisa Ore Field). **R. Migineishvili**. Second Republican Scientific Conference, Tbilisi, 1990, pp. 133-135.
21. On the role of physical and mechanical properties in localization of ore mineralization at Valkhokhi lead-zinc deposit. **R. Migineishvili** Republican Conference of Young Scientists and Specialists, Tbilisi, 1986. Abstracts, pp. 59-60

Grant projects

1. 1999-2001 - Joint INTAS (International Association for the promotion of co-operation with scientific from the New Independent States of the former Soviet Union)-Georgia Project 1416 – "Elaboration and quantification of the metallogenic evolution of the Alpine fold Systems: the Pontides-Lesser Caucasus sector of the Tethyeen Eurasian metallogenic belt", Principal Researcher.

2. 2002 -2003 - Grant project of the Georgian National Academy of Sciences: “Minerageny of the territory of Georgia and its shelf zone, mineral resources of Georgia and their importance for the country's economy”, Key Personnel.
3. 2004 - Grant project of the Georgian National Academy of Sciences: “Patterns of the origin and distribution of mineral deposits of Georgia in the earth's crust, assessment of the prospects of the mineral resources of Georgia in a market economy”, Key Personnel.
4. 2009-2012 - SCOPES (Scientific Co-operation between Eastern Europe and Switzerland) scientific project “Metallogeny of the Caucasus (Georgia, Armenia & Azerbaijan)”; Project code IZ73ZO_128324, Key Personnel.
5. 2015-2017 - Shota Rustaveli National Science Foundation of Georgia; scientific project “International Research Group – Earth Sciences in the South Caucasus (Georgia – Eastern Black Sea)”, Grant agreement 04/45, Key Personnel.
6. 2015-2018 - Shota Rustaveli National Science Foundation of Georgia; scientific project “Gold-copper-porphyry and nonsulfide epigenetic mineralization genesis in Bolnisi Ore District in relation to volcanic activity on the background of late subduction stage of Tethyan active margin development”; Project code FR/81/9-152/14, Key Personnel.

Additional information

2011-2013 - R. Migineishvili was invited as a lecturer on the Faculty of Exact and Natural Sciences of the Ivane Javakhishvili Tbilisi State University.