



Ira Mshvenieradze

Position

Scientific Researcher at Department of Mineral Resources Geology and Geochemistry of Alexandre Janelidze Institute of Geology, Tbilisi State University.

Scientific/academic degree, title

Doctor of Geology (2011); "Late Hercynian Potash Granites of Dzirula Massif (western Georgia) and their Role in Ore-Manifestation.

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Education

1997-2001 – Kutaisi A. Tsereteli State University. Faculty of Natural Sciences. Bachelor.

2003-2005 – Technical University of Georgia. Faculty of Mining and Geology, Master.

2008-2011 – Technical University of Georgia. Faculty of Mining and Geology. Doctorate

Employment history

2009 – present – Scientific Researcher, Al. Janelidze Institute of Geology, Department of Mineral Resources Geology and Geochemistry

Research interests

Geochemical aspects of origin of Late Variscan granites, accumulation and migration of potassium as a granitophilic chemical element in the continental crust.

Publications

1. Volcanogenic Deposits of Non-ferrous Metals in the Lesser Caucasus and Eastern Pontides. *S. Kekelia, N. Gagnidze, I. Mshvenieradze, G.i Kharazishvili.* (2021). Journal of Energy and Natural Resources. V. 3, No 4.

2. Ore Mineralization of Active Paleomargins of Continents (on the Example of Alpine Metallic Deposits of Caucasus and Pontides). *S. Kekelia, N. Gagnidze, I. Mshvenieradze, G. Kharazishvili.* (2021). Journal of Energy and Natural Resources / Vol. 10, No. 1, pp. 1-13.
3. Prospecting model for gold-quartz-low sulfide occurrences (southern slope of the Greater Caucasus, Georgia). *S. Kekelia, M. Kekelia, N. Gagnidze, I. Mshvenieradze, K. Lobzhanidze, N. Popkhadze, G.Kharazishvili.* (2020). Proceedings of Al. Janelidze Institute of Geology. 2020/New series. Vol. 132, pp.78-88.
4. Gold potential and gold-quartz-low sulfide occurrence of the southern slope of the Greater Caucasus (within the limits of Georgia). *S. Kekelia, M. Kekelia, G.Asatiani, N. Gagnidze, I. Mshvenieradze, K. Lobzhanidze, G.Kharazishvili.* (2020). Proceedings of Al. Janelidze Institute of Geology /New series. Vol. 132, pp. 66-78.
5. Geological Setting and Genetic model of the Zopkhito prospect (Southern slope of the Greater Caucasus, Georgia). *S. Kekelia, M. Kekelia, N. Popkhadze, I. Mshvenieradze, G. Asatiani, N. Gagnidze, K. Lobzhanidze.* (2017). Bulletin of the Georgian National Academy of Sciences / vol. 11, №4, pp. 60-65.
6. Svaneti Gold Deposits (Kirar-Abakuri Ore Knot) and their Genesis. *S. Kekelia, M. Kekelia, N. Gagnidze, N. Popkhadze, I. Mshvenieradze, K. Lobzhanidze, G.Kharazishvili.* (2017). Bulletin of the Georgian National Academy of Sciences / vol. 11, № 2. pp. 60-68.
7. Porphyry Copper- and Copper-Molybdenum Deposits of the Lesser Caucasus and their Formation Conditions. *S. Kekelia, M. Kekelia, G.Asatiani, N.Gagnidze, I. Mshvenieradze.* (2015). Proceedings of Al. Janelidze Institute of Geology / New series. Vol. 127. pp. 173-184.
8. Biotite mineralogy and geochemistry in potassium granites of the Dzirula crystalline massif. *I. Mshvenieradze.* (2011). Georgian Technical University. Proceedings / #N1 (479), pp. 54-60.
9. Geochemistry of Gold in the Earth History and Methods of Prospecting. *G. Odikadze, I. Paradashvili, T. Butulashvili, I. Mshvenieradze.* (2010). "Georgian Oil and Gas", N.11, pp.17-32.
10. Geochemical aspects of formation of Dzirula crystalline massif (west Georgia) Late-Hercynian potassium granites. *I. Mshvenieradze.* (2010). Georgian Technical University. Proceedings / #2(476) pp. 63-68.
11. Petrological and geochemical features of late Variscan potassium granite of Dzirula crystalline massif. *I. Mshvenieradze.* (2010). Georgian Technical University. Proceedings, #3(477) pp.48-56.
12. The term "Granite" - a brief historical overview and current reality. *G.Odikadze, I.Mshvenieradze, N. Maisuradze.* (2006). "Georgian Oil and Gas", N18 pp. 42-47.
13. Biosphere and Granite Production. *G.Odikadze, I.Mshvenieradze, I.Paradashvili.*(2005). "Georgian Oil and Gas", N15 pp.44-51.
14. The role of the upper mantle in the formation of the granite layer. *G.Odikadze, I. Mshvenieradze*(2005). "Georgian Oil and Gas", N13 pp. 50-54.
15. Clay a possible substrate for the conception and development of granite (granite layer) and living organisms (biocenosis) in the continental crust. *Mshvenieradze I. Odikadze G.* (2005). "Georgian Oil and Gas", N14 pp.47-54.

16. Geochemical aspects of the origin of Late Hercynian microcline granites of the Dzirula crystalline massif. **I. Mshvenieradze**. (2004). "Georgian Oil and Gas", N11 pp.56-61.

Grant projects

Development of geological-genetic bases for prediction of quartz-low sulfide vein type gold deposits on the example of upper Svaneti region (Georgia). FR/8/9-152/14 Shota Rustaveli National Science Foundation. 2015 - 2018. Researcher.

Scientific events

1. The Main Geochemical Aspects of the Origin of the Dzirula Crystalline Massif Potassic Granites. **I. Mshvenieradze**. (2009). The 77 th Students' Open Scientific and technical Conference. Georgian Technical University.
2. Geochemical Peculiarities of Quartz and Biotite in Potassic Granites of the Dzirula Crystalline Massif. G. Odikadze, **I. Mshvenieradze**. (2010). The international Scientific Conference „Problems of the Caucasus" dedicated to the 85-th anniversary of Alexandre Janelidze institute of Geology. TSU, Al. Janelidze Institute of Geology.
3. Gold Occurrences of Georgia. N.Gagnidze, N. Popkhadze, S. Kekelia, M. Kekelia, G. Asatiani, **I. Mshvenieradze**, G. Kharazishvili. (2016). Technical University. International Scientific-Practical Conference on up-to-date Problems of Geology - "Power of Geology is the Precondition for Regeneration of Economics", GTU. Abstracts Volume, p.36-38.
4. Geological Setting and Genetic model of the Zopkhito Prospect (Southern slope of the Greater Caucasus, Georgia). S.Kekelia, M.Kekelia, N. Popkhadze, **I. Mshvenieradze**, G. Asatiani, N. Gagnidze, K. Lobzhanidze. (2017). 3rd International Scientific-Practical Conference on Up-to-date Problems of Geology. GTU. Abstracts Volume, p. 65-66.
5. Svaneti Gold Deposits (Kirar-Abakuri ore Knot) and Their Genesis. S.Kekelia, M.Kekelia, N. Gagnidze, N. Popkhadze, **I. Mshvenieradze**, G. Kharazishvili. (2017). 3rd International Scientific-Practical Conference on Up-to-date Problems of Geology. GTU. Abstracts Volume, p. 61-64.
6. Prospecting model for gold-quartz-low sulphide occurrences (Southern slope of the Greater Caucasus, Georgia). S. Kekelia, M. Kekelia, N. Gagnidze, **I. Mshvenieradze**, N. Popkhadze. (2018). 4th International Scientific-Practical Conference on up-to-date Problems of Geology. GTU, P.52-54.
7. Gold potential of the southern slope of the greater Caucasus (Georgia). S. Kekelia, M. Kekelia, N. Gagnidze, N. Popkhadze, **I. Mshvenieradze**, K. Lobzhanidze. (2019). 5th International Scientific-Practical Conference on up-to-date Problems of Geology. GTU. Abstracts Volume, P.49-51.
8. Volcanogenic Deposits of Non-Ferrous Metals of the Central Segment of the Alpine-Himalayan Mountain-Belt and Problems of Ore Genesis. S. Kekelia, M. Kekelia, G. Asatiani, N. Gagnidze, **I. Mshvenieradze**, N. Popkhadze, G. Kharazishvili. (2020). 6th International Scientific-Practical Conference on up-to-date Problems of Geology. GTU. Abstracts Volume, P.43-45.
9. Svaneti Gold Occurrence and its Genesis, Greater Caucasus (Georgia). N. Gagnidze, S. Kekelia, M. Kekelia, N. Popkhadze, **I. Mshvenieradze**. (2020). International Geochemical Conference - Goldshmidt. Hawaii, USA.