



Giorgi Vashakidze

Position

Alexandre Janelidze Institute of Geology of Ivane Javakhsishvili Tbilisi State University, Department of Petrology, Volcanology, Mineralogy and Lithology, Senior scientist.

Scientific/academic degree, title

Candidate of Geological-Mineralogical Sciences (1999). Dissertation topic - "Petrology and Geochronology of the Loki Massif".

Contact information

E-mail: goga.vashakidze@gmail.com

Education

1975-1980 – Polytechnic Institute of Georgia, engineer-geologist.

Employment history

1983-1999 – A.Janelidze Geological Institute, Department of Isotope Geochronology, Junior Scientist;

1999-2005 – A.Janelidze Geological Institute, Department of Isotope Geochronology, Senior Scientist;

2006-2009 – A.Janelidze Institute of Geology, Department of Mineralogy and Isotopic Geochronology, Head of Department; Chief Scientist;

2009-2015 – Alexandre Janelidze Institute of Geology of Ivane Javakhsishvili Tbilisi State University, Department of Mineral Resources, Geochemistry and Isotopic Geochronology, Senior Scientist;

2015 – up-to present - Alexandre Janelidze Institute of Geology of Ivane Javakhsishvili Tbilisi State University, Department of Petrology, Volcanology, Mineralogy and Lithology, Senior Scientist.

Research interests

Petrology and geochronology of igneous rocks; volcanology; paleomagnetism; archaeomagnetism.

Publications

1. *Sanchez-Moreno, E. M., Calvo-Rathert, M., Gogichaishvili, A., Vashakidze, G. T., Camps, P., Morales-Contreras, J., Néstor Vegas-Tubía, Vladimir A. Lebedev* (2021). Paleointensity results from Pliocene lavas of the Lesser Caucasus obtained using the multispecimen parallel differential pTRM method: A comparison with Thellier-Thellier and IZZI data. *Journal of Geophysical Research: Solid Earth*, vol. 126, issue 4, e2020JB019682, pp. 1-24.
<https://doi.org/10.1029/2020JB019682>
2. *Avto Gogichaishvili, Berenice Gomes, Manuel Calvo, Vladimir Lebedev, Miguel Cervantes, Goga Vashakidze, Jemal Sologashvili, Juan Morales* (2021). Noise across Olduvai Subchron: Paleomagnetic study of a Pliocene lava succession from Javakheti Highland (Georgia, lesser Caucasus). *Physics of the Earth and Planetary Interiors*, vol. 311, pp. 1-9.
<https://doi.org/10.1016/j.pepi.2020.106641>
3. *M. Calvo-Rathert, M.F. Bógalo, J. Morales, A. Gogichaishvili, V.A. Lebedev, G. Vashakidze, N. Gracia-Redondo, E. Herrero-Bervera* (2021). An integrated paleomagnetic, multimethod-paleointensity and radiometric study on Cretaceous and Paleogene lavas from the lesser Caucasus: geomagnetic and tectonic implications. *Journal of Geophysical Research: Solid Earth*. Volume 126, Issue 2, e2020JB020019, pp. 1-19.
<https://doi.org/10.1029/2020JB020019>
4. *Giorgi Vashakidze, Anton V. Parfenov, Ketevan Gabarashvili, Manana Togonidze, Tamar Beridze, Vladimir A. Lebedev* (2021). Quaternary volcanic activity in the Greater Caucasus: a review of Elbrus, Kazbek and Keli volcanoes. In book: "Building Knowledge for Geohazard Assessment and Management in the Caucasus and other Orogenic Regions". Published by Springer, P.O. Box 17, 3300 AA Dordrecht, the Netherlands. Edition Number 1. pp. 217-239.
<https://doi.org/10.1007/978-94-024-2046-3>
5. *Elisa M. Sánchez-Moreno, Manuel Calvo-Rathert, Avto Gogichaishvili, Lisa Tauxe, George T. Vashakidze, Vladimir A. Lebedev* (2020). Weak paleointensity results over a Pliocene volcanic sequence from the Lesser Caucasus (Georgia): Transitional record or time averaged field? *Geophysical Journal International*. Volume 220, Issue 3, March, pp. 1604–1618.
<https://doi.org/10.1093/gji/ggz533>
6. *G. Vashakidze, M. Togonidze, V. Lebedev, K. Lobjanidze* (2020). Eocene magmatism in the Loki massif. *Alexandre Janelidze Institute of Geology of Ivane Javakhishvili Tbilisi State University Proceedings*. New series, vol. 132, pp. 103-110.
7. *A.V. Parfenov, V.A. Lebedev, I.V. Chernyshev, G.T. Vashakidze, A.I. Yakushev, Yu.V. Goltsman, A.V. Chugaev, T.I. Oleinikova, E.M. Kanunnikova, K.A. Gabarashvili* (2019). Petrological-Geochemical Characteristics of Lavas, Sources and Evolution of Magmatic Melts of the Kazbek Neovolcanic Center (Greater Caucasus). *Petrology*, vol. 27, № 6, pp. 606–632.
<https://doi.org/10.31857/S0869-5903276658-689>
8. *Goga Vashakidze, Avto Gogichaishvili, Natalia Garcia-Redondo, Manuel Calvo-Rathert, Ángel Carrancho, Ruben Cejudo, Juan Morales, Vladimir A. Lebedev, Ketino Gabarashvili* (2019). Magnetic dating of the Holocene monogenetic Tkarsheti volcano in the Kazbeki region (Great Caucasus). *Earth, Planets and Space*. 71, N 133, pp. 1-7.
<https://doi.org/10.1186/s40623-019-1109-4>
9. *V.A. Lebedev, G.T. Vashakidze, A.V. Parfenov, A.I. Yakushev* (2019). The Origin of Adakite-Like Magmas in the Modern Continental Collision Zone: Evidence from Pliocene Dacitic Volcanism of the Akhalkalaki Lava Plateau (Javakheti Highland, Lesser Caucasus). *Petrology*, vol. 27, №3, pp. 307-327. DOI: 10.1134/S0869591119030056
10. *E. M. Sánchez-Moreno, M. Calvo-Rathert, A. Gogichaishvili, Vashakidze, G. T., Lebedev, V. A.* (2019). Nuevos enfoques metodológicos para la obtención de paleointensidades absolutas de

- fiabilidad reforzada. *Latinmag Letters*, Proceedings Rancagua, Chile. Vol. 9, Special Issue, D09-P, pp. 1-6.
11. *Elisa M. Sanchez-Moreno, Manuel Calvo-Rathert, Avto Gogichaishvili, George T. Vashakidze, and Vladimir A. Lebedev* (2018). Evidence of unusual geomagnetic regimes recorded in Plio-Pleistocene volcanic sequences from the Lesser Caucasus (Southern Georgia). *G³ (Geochemistry, Geophysics, Geosystems)*, vol. 19, Issue 5, pp. 1-18.
<https://doi.org/10.1029/2017GC007358>
 12. *V.A. Lebedev, A.V. Parfenov, G.T. Vashakidze, Q.A. Gabarashvili, I.V. Chernyshev, M.G. Togonidze* (2018). Chronology of Magmatic Activity and Petrologic–Mineralogical Characteristics of Lavas of Kazbek Quaternary Volcano, Greater Caucasus. *Petrology*, vol. 26, №1, pp. 1–28. DOI: 10.7868/S0869590318010016
 13. *V.A. Lebedev, A.V. Chugaev, G.T. Vashakidze, A.V. Parfenov* (2016). Formation Stages and Ore Matter Sources of the Devdoraki Copper Deposit, Kazbek Volcanic Center, the Greater Caucasus. *Geology of Ore Deposits*, vol. 58, № 6, pp. 465–484.
DOI: 10.1134/S1075701516060040
 14. *Avto Goguichaichvili, Ana Caccavari, Manuel Calvo-Rathert, Juan Morales, Miguel Cervantes Solano, Goga Vashakidze, He Huaiyu, Nestor Vegas* (2016). Absolute paleointensity determinations by using of conventional double-heating and multispecimen approaches on a Pliocene lava flow sequence from the Lesser Caucasus. *Physics of the Earth and Planetary Interiors*, vol. 257, pp. 158-170. <https://doi.org/10.1016/j.pepi.2016.06.002>
 15. *M.F. Bógalo, M. Calvo-Rathert, A. Gogichaishvili, G. Vashakidze, O.Z. Dudaury, J.J. Villalain, Á. Carrancho* (2016). Estudio paleomagnético preliminar de lavas cretácicas y paleógenas del distrito de Bolnisi, Cáucaso menor, Georgia. *Latinmag Letters*, Volume 6, Special Issue, B06, pp. 1-6. Proceedings São Paulo, Brasil.
 16. *E.M. Sánchez-Moreno, M. Calvo-Rathert, A. Gogichaishvili, G.T. Vashakidze, V.A. Lebedev, A. Carrancho, J.J. Villalaín, A. Caccavari, M. Devidze, C. Principe* (2016). Registro de transiciones de polaridad en coladas volcanicas pliocenas de la meseta de Djavakheti (Cáucaso menor): el caso de la secuencia de Apnia. *Latinmag Letters*, Volume 6, Special Issue, B31, pp.1-6. Proceedings São Paulo, Brasil.
 17. *Ana Caccavari, Avto Goguitchaichvili, Manuel Calvo-Rathert, Juan Morales, Miguel Cervantes Solano, Goga Vashakidze, He Huaiyu, V.A. Lebedev, Néstor Vegas* (2016). Determinaciones de paleointensidad en una secuencia volcanica en el Cáucaso menor, Georgia. *Latinmag Letters*, Volume 6, Special Issue, C02, pp. 1-7. Proceedings São Paulo, Brasil.
 18. *E.M. Sánchez-Moreno, M. Calvo-Rathert, A. Gogichaishvili, G.T. Vashakidze, V.A. Lebedev* (2016). Determinación de paleointensidades absolutas registradas durante etapas de inestabilidad del campo magnético terrestre en rocas volcánicas plioleistocenas de la meseta de Djavakheti (Sur de Georgia). *Geo-Temas*, vol. 16 (1), pp. 889-892..
 19. *M. Calvo Rathert, M.F. Bógalo, A. Gogichaishvili, G. Vashakidze, J.J. Villalaín y A. Carrancho* (2016). Análisis paleomagnético y de paleointensidad de coladas cretácicas y paleógenas del sur de Georgia. *Geo-Temas*, vol. 16 (1), pp. 805-808.
 20. *A.V. Parfenov, V.A. Lebedev, G.T. Vashakidze* (2016). Magmatic activity phases/stages of the Kazbegi neovolcanic center (the Great Caucasus) and major petrological and mineralogical features of lavas. VIII International Scientific Conference "Volcanism, biosphere and ecological problems". Proceedings – Maykop: pub. "Magarin O.G.", pp. 103-106.
 21. *A.V. Parfenov, V.A. Lebedev, G.T. Vashakidze, Yu.V. Goltsman, T.I. Oleinikova* (2016). Matter sources and evolution of magmatic melts of Kazbegi neovolcanic center (the Greater Caucasus): the results of petrological, geochemical and isotopepe studies. Proceedings of VIII

- all-Russia Petrographic Conference with International participation "Petrology of magmatic and metamorphic complexes". Pp. 273-275.
22. **G. Vashakidze**, R. Akhvlediani, I. Akhvlediani, V. Lebedev, K. Gabarashvili, O. Dudaury, M. Togonidze (2015). Some Features of the Chemistry of Quaternary Volcanism of the Keli Highland (the Greater Caucasus). Proceedings of the Institute of Geology, new series, vol. 127, pp. 137-146.
 23. O. Dudaury, M. Togonidze, V. Lebedev, **G. Vashakidze**, K. Gabarashvili, K. Lobzhanidze (2015). Stages of Development of Neogene-Quaternary Acid Magmatism on the Southern Slope of the Greater Caucasus in Upper Racha and Lower Svaneti. Proceedings of the Institute of Geology, new series, vol. 127, pp. 123-134.
 24. Manuel Calvo-Rathert, Avto Gogichaishvili, **Goga Vashakidze**, Jemal Sologashvili (2015). New paleomagnetic and paleointensity data from Georgia (Caucasus): a review. Latinmag letters, vol. 5, №5, LL15-0503Rv, pp. 1-22.
 25. V.A. Lebedev, I.V. Chernyshev, **G.T. Vashakidze**, Yu.V. Goltsman, T.I. Oleinikova, A.I. Yakushev (2014). Age and Origin of Miocene Gabbroid Intrusions in the Northern Part of the Lesser Caucasus. Petrology, vol. 22, №6, pp. 521–535. DOI: 10.1134/S0869591114040055
 26. V.A. Lebedev, A.V. Parfenov, **G.T. Vashakidze**, I.V. Chernyshev, Q.A. Gabarashvili (2014). Major Events in Evolution of the Kazbek Neovolcanic Center, Greater Caucasus: Isotope–Geochronological Data. Doklady Earth Sciences, vol. 458, Part 1, pp. 1092-1098. DOI: 10.1134/S1028334X14090074
 27. Ana Caccavari, Manuel Calvo-Rathert, Avto Goguitchaichvili, He Huaiyu, **Goga Vashakidze**, Néstor Vegas (2014). Palaeomagnetism and $^{40}\text{Ar}/^{39}\text{Ar}$ age of a Pliocene lava flow sequence in the Lesser Caucasus: record of a clockwise rotation and analysis of palaeosecular variation. Geophysical Journal International, volume 197, Issue 3, pp. 1354–1370. <https://doi.org/10.1093/gji/ggu097>
 28. V.A. Lebedev, **G.T. Vashakidze** (2014). The Catalogue of Quaternary Volcanoes of the Greater Caucasus Based on Geochronological, Volcanological and Isotope-Geochemical Data. The Catalogue of Quaternary Volcanoes of the Greater Caucasus Based on Geochronological, Volcanological and Isotope-Geochemical Data. Journal of Volcanology and Seismology, vol. 8, No. 2, pp. 93–107. DOI: 10.1134/S0742046314020043
 29. Ana Caccavari, Manuel Calvo-Rathert, Avto Gogichaishvili, He Huaiyu, **Goga Vashakidze**, Néstor Vegas (2013). Paleomagnetismo y fechamiento $^{40}\text{Ar}/^{39}\text{Ar}$ de una secuencia de coladas de la lava pliocénicas en el cáucaso menor: registro de una rotación y análisis de la variación paleosecular. Latinmag Letters, volume 3, Special Issue, PC03, pp. 1-9.
 30. Manuel Calvo Rathert, María Felicidad Bógalo, Avto Gogichaishvili, Jemal Sologashvili, **Goga Vashakidze** (2013). New Paleomagnetic and paleointensity data from Pliocene lava flows from the Lesser Caucasus. Journal of Asian Earth Sciences, vol.73. pp. 347-361. <http://dx.doi.org/10.1016/j.jseaes.2013.04.039>
 31. V.A. Lebedev, I.V. Chernyshev, O.Z. Dudaury, **G.T. Vashakidze**, Yu.V. Goltsman, E.D. Bairova A.I. Yakushev (2013). Manifestations of Miocene Acid Intrusive Magmatism on the Southern Slope of the Greater Caucasus: First Evidence from Isotope Geochronology. Doklady Earth Sciences, vol. 450, Part.1, pp. 550-555. DOI: 10.1134/S1028334X13050103
 32. M. Calvo Rathert, M.F. Bógalo Román, A. Gogichaishvili, J. Sologashvili, **G. Vashakidze** (2012). Estudio paleomagnético y de paleointensidad en coladas pliocénicas del Cáucaso Menor (Georgia). Geo-Temas, vol. 13, pp. 1132-1135.
 33. A. Caccavari, M. Calvo Rathert, A. Gogichaishvili, **G. Vashakidze**, N. Vegas, B. Aguilar (2012). Resultados preliminares del estudio realizado en una secuencia de coladas volcánicas Plio-

- Cuaternarias en Georgia, utilizando magnetismo de rocas, paleomagnetismo y paleointensidad. *Geo-Temas*, vol. 13, pp. 1208-1211.
34. *V.A. Lebedev, I.V. Chernyshev, G.T. Vashakidze, M.V. Gudina, A.I. Yakushev* (2012). Geochronology of miocene volcanism in the northern part of the Lesser Caucasus (Erusheti Highland, Georgia). *Doklady Earth Sciences*, vol. 444, Part.1, pp. 585-590.
DOI: 10.1134/S1028334X12050042
 35. *N.A. Adeishvili, G.T. Vashakidze, I.R. Akhvlediani, D.P. Zakaraia* (2011). Petrochemistry of the rocks of the Khrami massif. *GEN (Georgian engineering news)*, №4, pp. 79-83.
 36. *Manuel Calvo-Rathert, Avto Gogichaishvili, Jemal Sologashvili, Goga Vashakidze* (2011). 15 años de investigaciones paleomagnéticas y de paleointensidad en Georgia (Cáucaso). *Latinmag Letters*, Volume 1, Special Issue, C04, pp. 1-7.
 37. *Ana Caccavari, Manuel Calvo Rathert, Avto Gogichaishvili, Goga Vashakidze, Néstor Vegas, Bertha Aguilar* (2011). Estudio paleomagnético y de magnetismo de rocas de la secuencia pliocena de saro (Georgia, Cáucaso). *Latinmag Letters*, Volume 1, Special Issue, B23, 1-6.
 38. *V.A. Lebedev, G.T. Vashakidze, E.V. Arutyunyan, A.I. Yakushev* (2011). Geochronology and Evolution of Quaternary Volcanism at the Keli Highland, Greater Caucasus. *Geochemistry International*, vol. 49, №11, pp.1120-1144. DOI: 10.1134/S0016702911090035
 39. *O.Z. Dudaui, M.G. Togonidze, G.T. Vashakidze* (2010). General Peculiarities of the Development of the Mesozoic Magmatism of Georgia. *Proceedings of the Institute of Geology*, new series, issue 125, pp. 24-40.
 40. *V.A. Lebedev, S.N. Bubnov, I.V. Chernyshev, A.V. Chugaev, Yu.V. Goltsman, G.T. Vashakidze, E.D. Bairova* (2009). Geochronology and Genesis of the Young (Pliocene) Granitoids of the Greater Caucasus: Dzhimara Multiphase Massif of the Kazbek Neovolcanic Area. *Geochemistry International*, vol. 47, №6, pp. 550-567.
DOI: 10.1134/S0016702909060020
 41. *V.A. Lebedev, G.T. Vashakidze, A.V. Chugaev, O.Z. Dudaui, M.G. Togonidze* (2008). *Proceedings of the Institute of Geology*, vol. 124, pp. 268-273.
 42. *G.T. Vashakidze, R.A. Akhvlediani, O.Z. Dudaui, M.G. Togonidze, V.A. Lebedev* (2008). *Proceedings of Institute of Geology*, vol. 124, pp. 238-248.
 43. *O.Z. Dudaui, G.T. Vashakidze, M.G. Togonidze* (2008). Clastic Dikes in the Khrami Crystalline Massif. *Proceedings of the Institute of Geology*, vol. 124, pp. 226-231.
 44. *V.A. Lebedev, S.N. Bubnov, O.Z. Dudaui, G.T. Vashakidze* (2008). Geochronology of Pliocene Volcanism in the Dzhavakheti Highland (the Lesser Caucasus). Part 2: Eastern Part of the Dzhavakheti Highland. *Regional Geological Correlation. Stratigraphy and Geological Correlation*, vol. 16, No. 5, pp. 553-574. DOI: 10.1134/S0869593808020081
 45. *V.A. Lebedev, S.N. Bubnov, O.Z. Dudaui, G.T. Vashakidze* (2008). Geochronology of Pliocene Volcanism in the Dzhavakheti Highland (the Lesser Caucasus). Part 1: Western Part of the Dzhavakheti Highland. *Stratigraphy and Geological Correlation*, vol. 16, No. 2, pp. 204-224. DOI: 10.1134/S0869593808050080
 46. *V.A. Lebedev, G.T. Vashakidze, V.G. Sakhno* (2008). Potential Volcanic Danger in the Keli Highland (Greater Caucasus): Evidence from Isotopic–Geochronological Study of the Youngest Lavas. *Doklady Earth Sciences*, vol. 418, No.1, pp. 169-173.
DOI: 10.1134/S1028334X08010376
 47. *O.Z. Dudaui, M.G. Togonidze, G.T. Vashakidze* (2007). Sh. A. Azizbekov's Contribution to the Petrographic Study of the Dzirula Crystalline Mass and Modern Concepts on its Structure. Problematic Questions of geodynamics, petrology and metallogeny of the Caucasus (Materials of Scientific Session Dedicated to Sh. Azizbekov's 100th Anniversary). Pp. 61-70.

48. V.A. Lebedev, S.N. Bubnov, I.V. Chernyshev, A.V. Chugaev, O.Z. Dudaury, **G.T. Vashakidze** (2007). Geochronology and genesis of subalkaline dasaltic lava rivers at the Dzhavakheti highland, Lesser Caucasus: K-Ar and Sr-Nd isotopic data. *Geochemistry International*, vol.45 №3, pp. 211-225. DOI: <https://doi.org/10.1134/S0016702907030019>
49. V.A. Lebedev, I.V. Chernyshev, A.V. Chugaev, **G.T. Vashakidze** (2007). Geochronology of quaternary volcanism of the Krestovyi pass region, Kazbek neovolcanic area, Greater Caucasus. *Doklady Earth Sciences*, vol. 413, No. 2, pp. 272-276. DOI: 10.1134/S1028334X07020328
50. V.A. Lebedev, S.N. Bubnov, I.V. Chernyshev, Yu.V. Gol'tsman, A.V. Chugaev, **G.T. Vashakidze** (2006). Pliocene granitoid massif in the Kazbek volcanic center: first geochronological and isotope-geochemical data. *Doklady Earth Sciences*, vol. 411A, №9, pp. 1393-1397. DOI: 10.1134/S1028334X06090133
- S.N. Bubnov, V.A. Lebedev, I.V. Chernyshev, A.V. Chugaev, Yu.V. Gol'tsman, **G.T. Vashakidze**, E.D. Bairova, T.I. Oleinikova (2006). Sources of Neogen-Quaternary Basic Volcanism of the Greater and Lesser Caucasus. *Volcanism and Geodynamics: Materials of III Russian simp. On the Volcanology and Paleovolcanology*, vol. 2, pp. 520-523.
52. N.I. Skhirtladze, O.Z. Dudaury, M.G. Togonidze, **G.T. Vashakidze**, V.A. Lebedev, R.A. Akhvlediani, M.M. Arakelyants (2006). K-Ar Age of Teschenites of Georgia and their Geological-Petrological Peculiarities. Isotope dating of ore forming processes, magmatism, sedimentation and metamorphism: Materials of III Rus. Conference on Isotope Geochronology. Moscow, vol.2, pp. 319-324.
53. S.N. Bubnov, V.A. Lebedev, I.V. Chernyshev, A.V. Chugaev, Yu.V. Gol'tsman, **G.T. Vashakidze**, E.D. Bairova, T.I. Oleinikova (2006). Position and Role of Subalkaline Volcanism in Neogene-Quaternary Geological History of the Greater and Lesser Caucasus. Isotope dating of ore forming processes, magmatism, sedimentation and metamorphism: Materials of III Russian Conference on Isotope Geochronology. Moscow, vol.1, pp.129-132.
54. V.A. Lebedev, I.V. Chernyshev, A.V. Chugaev, O.Z. Dudaury, **G.T. Vashakidze** (2006). K-Ar Age and Sr-Nd Characteristics of Subalkali Basalts in the Central Georgian Neovolcanic Region (Greater Caucasus). *Doklady Earth Sciences*, vol. 408, №4, pp. 657-661. DOI: 10.1134/S1028334X06040337
55. V.A. Lebedev, I.V. Chernyshev, E.V. Arutyunyan, S.N. Bubnov, O.Z. Dudaury **G.T. Vashakidze** (2004). Chronology of Quaternary Volcanism of the Keli Highland, Greater Caucasus: Evidence from K-Ar Isotopic Dating. *Doklady Earth Sciences*, vol. 399A, №9, pp. 1227-1231. <https://doi.org/10.1134/S0016702911090035>
56. **G.T. Vashakidze**, R.A. Akhvlediani (2004). Typomorphism of Feldspars of the Mesozoic Intrusive Rocks (in Russian). *Proceedings of Geol. Inst. of the Georgian Acad. of Sci.*, new series, issue 119, pp. 580-588.
57. O.Z. Dudaury, M.G. Togonidze, **G.T. Vashakidze**, M.B. Lordkipanidze (2004). Middle Jurassic Volcano-Plutonic Association of the Southern Slope of the Greater Caucasus (within the limits of Georgia) (in Russian). *Proceedings of Geol. Inst. of the Georgian Acad. of Sci.*, new series, issue 119, pp. 424-432.
58. V.A. Lebedev, I.V. Chernyshev, O.Z. Dudaury, M.M. Arakelyants, Yu.V. Gol'tsman, A.V. Chugaev, **G.T. Vashakidze** (2004). Geochronology of Neogene-Quaternary Dacitic Volcanism of Javakheti Upland (Lesser Caucasus, Southern Georgia) (in Russian). *Proceedings of Geol. Inst. of the Georgian Acad. of Sci.*, new series, issue 119, pp. 535-544.
59. V.A. Lebedev, I.V. Chernyshev, M.M. Arakelyants, Yu.V. Gol'tsman, O.Z. Dudaury, **G.T. Vashakidze** (2004). Geochronology of the Neogene-Quaternary Dacitic Volcanism in the

- Northwestern Lesser Caucasus (Georgia). Stratigraphy and Geological Correlation, vol.12, №1, pp. 85-101.
60. *V.A. Lebedev, I.V. Chernyshev, O.Z. Dudaury, M.M. Arakelyants, E.D. Bairova, Yu.V. Gol'tsman, A.V. Chugaev, G.T. Vashakidze* (2003). The Samsari Volcanic Center as an Example of Recent Volcanism in the Lesser Caucasus: K-Ar Geochronological and Sr-Nd Isotopic Data. Doklady Earth Sciences, vol. 393A, №9, pp. 1323-1328.
 61. *G. Nasidze, R. Akhvlediani, G. Vashakidze, K. Chikhelidze* (2002). Amphibole typomorphism of Dzirula crystalline massif (in Russian). Georgian Academy of Sciences A. Janelidze Geological Institute Proceeding, New Series, vol. 117, p. 300-309.
 62. *R. Akhvlediani, G. Vashakidze, I. Shvelidze* (2002). Petrochemistry of Rkvia Intrusion (in Russian). Georgian Academy of Sciences A. Janelidze Geological Institute Proceeding, New Series, vol. 117, p. 166-172.
 63. *G. Vashakidze, R. Akhvlediani* (2002). Petrochemistry of granitoid complex Locki massif (in Russian). Georgian Academy of Sciences A. Janelidze Geological Institute Proceeding, New Series, vol. 117, p. 157-165.
 64. *O.Z. Dudaury, G.K. Tsimakuridze, G.T. Vashakidze, M.G. Togonidze* (2000). New data on the age of granitoids of the Daryal massif. Proceedings of the GIN of the Acad. Sci. of Georgia, new series, issue 115, pp. 306-310.
 65. *G.T. Vashakidze* (2000). Paleozoic granitoids of the Loki massif. Proceedings of the GIN of the Acad. Sci. of Georgia, new series, issue 115, pp. 320-332.
 66. *I.P. Gamkrelidze, D.M. Shengelia, Yu.U. Shvelidze, G.T. Vashakidze* (1999). New data on the geological structure of the Loki Crystalline Massif. Bulletin of the Acad. Sci. of Georgia, vol.160, №1, pp. 93-97.
 67. *O.Z. Dudaury, M.G. Togonidze, G.T. Vashakidze* (1999). Regional problems of isotope geology. Proceedings of the GIN of the Acad. Sci. of Georgia dedicated to the 90 anniversary G.M. Zaridze, new series, issue 114, pp. 118-132.
 68. *I.P. Gamkrelidze, D.M. Shengelia, Yu.U. Shvelidze, G.T. Vashakidze* (1999). New data on the geological structure of the Loki crystalline massif. Proceedings of the GIN of the Acad. Sci. of Georgia dedicated to the 90 anniversary G. Zaridze, new series, issue 114, pp. 92-117.
 69. *G.T. Vashakidze* (1998). Mesozoic intrusions of the Loki massif. Proceedings of the GIN of the Acad. Sci. of Georgia dedicated to the 110 anniversary of A.I. Janelidze, pp. 150-162.
 70. *E.N. Bartnitsky, O.Z. Dudaury, G.T. Vashakidze, L.M. Stepanyuk, G. Ya. Terets* (1992). Isotopic geochronology of the granitoids of the Loki protrusion of the Transcaucasian crystalline basement. Collection of works "Geochemistry and ore formation". IGFM Academy of Sciences of Ukraine, vol.19, pp. 78-89.
 71. *G.T. Vashakidze, M.G. Togonidze, N.G. Poporadze* (1991). Cretaceous quartz diorite-porphyrites of the Loki protrusion of the Transcaucasian crystalline substrate. Bulletin of the Acad. Sci. of Georgia, vol. 144, No. 1, pp. 61-64.
 72. *Dudaury O., Togonidze M., Vashakidze G.* (1990). K-Ar age of granitoids of the transcaucasian Median Massif. Vor trāgedes internationale isotopen kolloquim 1988 in Freiberg, Leipzig. C. 441, vol.1, pp. 42-44.
 73. *O.Z. Dudaury, G.T. Vashakidze, D.P. Gogoladze* (1990). K-Ar age of some subvolcanic bodies of ore deposits of Kvemo Kartli (southeastern Georgia). Bulletin of the Acad. Sci. of the GSSR, vol. 140, No. 3, pp. 553-556.
 74. *G.T. Vashakidze, V.A. Klets, L.M. Stepanyuk, G. Ya. Terets* (1990). Isotope age of granitoids of the Loki protrusion of the Transcaucasian Median Massif. DAN USSR, series B. No. 2, pp. 3-6.

75. **G.T. Vashakidze**, L.M. Stepanyuk, G. Ya. Terets, V.A. Klets (1990). New radiogeochronological data on the age of some granitoids of the Loki protrusion of the Transcaucasian crystalline basement. Bulletin of the Acad. Sci. of the GSSR, vol. 137, No. 1, pp. 105-108.
76. D. M. Shengelia, **G. T. Vashakidze**, N. G. Poporadze, M. Sh. Imnaishvili (1990). Questions of petrology of metamorphites of the Loki crystalline protrusion of the Transcaucasian Median Massif. Collection of works of GTU, No. 2 (359), pp. 71-81.
77. D.M. Shengelia, **G.T. Vashakidze**, N.G. Poporadze (1989). New data on metamorphites of the Loki crystalline protrusion of the Transcaucasian Median Massif. DAN USSR, vol. 308, No. 3, pp. 694-698.
78. **G.T. Vashakidze** (1989). On the metamorphites of the Loki massif. Proceedings of the GIN of the Academy of Sciences of Georgia "Geology and Mineral Resources of the Caucasus". New series, issue 99, pp. 221-226.
79. Shengelia, **G.T. Vashakidze** (1989). Chloritoid-bearing metamorphites of the Loki crystalline protrusion of the Transcaucasian Median Massif. Bulletin of the Acad. Sci. of GSSR, vol. 134 №1, pp. 141-144.
80. **G. T. Vashakidze** (1984). K-Ar age of some granitoids of the Loki salient of the Transcaucasian Median Massif. Bulletin of the Acad. Sci. of GSSR, vol. 116 №2, pp. 353-356.

Citation index

Web of Science - 257, h-i - 10; Scopus - 241, h-i - 10; Google Scholar - 604, h-i - 15.

Participation in scientific events

1. Physical volcanology of the lava flows and associated interflow horizon at Toki section, South Georgia. Tamar Beridze, Ketevan Gabarashvili, Purva Gadpallu, Manana Kavsadze, **Giorgi Vashakidze**, Koba Lobzhanidze. 35th IAS Meeting of Sedimentology. Prague Czech Republic 2021. Abstracts, p. 54.
2. Quaternary volcanic activity in the Great Caucasus. **Giorgi Vashakidze**, Vladimir Lebedev, Anton Parfenov, Qetino Gabarashvili, Manana Togonidze, Tamar Beridze. Building Civil Protection Capacity to Mitigate Geohazards in the Caucasus: A Regional Approach. Tbilisi, Republic of Georgia 2019. Abstract_20.
3. Xenoliths in volcano Shevardeni lavas (Kazbegi neovolcanic center, Greater Caucasus), Georgia. Ketevan Gabarashvili, Manana Togonidze, **Giorgi Vashakidze**, Manana Kavsadze. 34th IAS Meeting of Sedimentology. "Sedimentology to face societal challenges on risk, resources and record of the past". Rome 2019. Abstracts, p. 548.
4. Comparative analysis of interflow horizons in Mtkvari/Kura River flood basalts (Javakheti Volcanic Province), Georgia. Ketevan Gabarashvili, Manana Kavsadze, Koba Lobzhanidze, **Giorgi Vashakidze**, Mirian Makadze, Purva Gadpallu. 34th IAS Meeting of Sedimentology. "Sedimentology to face societal challenges on risk, resources and record of the past". Rome 2019. Abstracts, p. 549.
5. Quartz in Mkinvartsveri (Kazbegi) quaternary lavas. K. Gabarashvili, I. Akhvlediani, V. Lebedev, A. Parfenov, M. Togonidze, **G. Vashakidze**. 4th International Scientific-Practical Conference on Up-to-date Problems of Geology. Tbilisi, Republic of Georgia 2018. Abstracts, pp. 25-28.
6. Are the Reddened Weathering Horizons between the Khertvisi and Toloshi Basalt Flows (Akhalkalaki Volcanic Plateau, Georgia) Bole Beds? M. Kavsadze, T. Beridze, K. Gabarashvili,

- K. Lobzhanidze, **G. Vashakidze**, M. Togonidze. 4th International Scientific-Practical Conference on Up-to-date Problems of Geology. Tbilisi, Georgia, 2018. Abstracts, pp. 49-51.
7. Structural geometry of active Kura foreland fold-and-thrust belt revealed by seismic reflection profiles. Victor Alania, Shota Adamia, Niko Tevzadze, Onise Enekidze, Tamar Beridze, Nino Sadradze, Artem Sanishvili, Alexander Chabukiani, Rusudan Chagelishvili, Alexander Gventsadze, Alexander Razmadze, **George Vashakidze**. European Geosciences Union General Assembly 2018. Vienna, Austria. Geophysical Research Abstracts, p. 9864.
 8. Morphological Features of Chkheri (the Great Caucasus) and Khertvisi (Southern Georgia) Lava Flows. Ketevan Gabarashvili, Koba Lobzhanidze, Tamar Beridze, **Giorgi Vasahkidze**, Manana Kavsadze, Manana Togonidze. 15th Swiss Geoscience Meeting. Davos 2017. Abstracts, P. 117.
 9. Shirimi – Georgian Travertine. Manana Kavsadze, Otari Dudauri, Manana Togonidze, **Giorgi Vasahkidze**, Ketevan Gabarashvili, Tamar Beridze. 15th Swiss Geoscience Meeting. Davos 2017. Abstracts, pp. 142-143.
 10. Physical volcanology of the exposed near village Khertvisi (Southern Georgia) lava flow relict: the preliminary study results. T. Beridze, **G. Vashakidze**, K. Gabarashvili, K. Lobzhanidze, M. Kavsadze, M. Togonidze, I. Dograshvili. 3rd International Scientific-Practical Conference on Up-to-date Problems of Geology. Tbilisi, Georgia, 2017. Abstracts, pp. 26-29.
 11. Quaternary andesitic lava exposure within the Gveleti massif. K. Gabarashvili, A. Parfenov, V. Lebedev, **G. Vashakidze**, M. Togonidze. 3rd International Scientific-Practical Conference on Up-to-date Problems of Geology. Tbilisi, Georgia 2017. Abstracts, pp. 36-39.
 12. New paleomagnetic data from the Djhavakheti Highland volcanic region (Lesser Caucasus): The Plio-Pleistocene Dashbashi sequence. Elisa Maria Sánchez Moreno, Manuel Calvo Rathert, Avto Gogichaishvili, **Goga T. Vashakidze**, Vladimir A. Lebedev. European Geosciences Union General Assembly 2017. Vienna, Austria. Geophysical Research Abstracts, EGU General Assembly, vol. 19, EGU2017-8679-3, p. 8679.
 13. Sr-Nd Isotope systematic of lavas and magma sources of Kazbegi neovolcanic center (the Great Caucasus). A.V. Parfenov, V.A. Lebedev, **G.T. Vashakidze**, Yu.V. Goltsman, T.I. Oleinikova. XXI symposium on isotope geochemistry in name of acad. A.P. Vinogradov. Moscow 2016. Abstracts, pp. 118-120.
 14. Paleomagnetismo y paleointensidad de coladas cretácicas y paleógenas del Cáucaso menor. María Felicidad Bógalo, Manuel Calvo Rathert, Avto Gogichaishvili, **Goga Vashakidze**, Pablo Calvín. Reunión Anual 2016, UGM (Union Geofísica Mexicana) Annual Meeting. Puerto Vallarta, Jalisco, Mexico. Geos vol. 36, Nº1, pp. 72.
 15. Protocolo multi-espécimen con corrección de estado de dominios (MSP-DSC) para la determinación de paleointensidades: análisis sobre secuencias de coladas dasálticas del Cáucaso menor (Georgia). Elisa Maria Sánchez Moreno, Manuel Calvo Rathert, Avto Gogichaishvili, Juan Morales, **Goga Vashakidze**, Pierre Camps, Vladimir Lebedev, Ana Caccavari. Reunión Anual 2016, UGM (Union Geofísica Mexicana) Annual Meeting. Puerto Vallarta, Jalisco, Mexico. Geos vol. 36, Nº1, pp. 78.
 16. Determinaciones de paleointensidad utilizando el método tradicional de doble calentamiento y el método de multiespecimen en una secuencia de lavas pliocenas en el Cáucaso menor, Georgia. Ana Caccavari Garza, Avto Gogichaishvili, Manuel Calvo Rathert, Juan Morales, Miguel Cervantes Solano, **Goga Vashakidze**, He Huaiyu, Néstor Vegas. Reunión Anual 2016, UGM (Union Geofísica Mexicana) Annual Meeting. Puerto Vallarta, Jalisco, Mexico. Geos vol. 36, Nº1, pp. 78.
 17. New paleomagnetic and paleointensity results from plio-pleistocene volcanic sequences from southern Georgia. Elisa Maria Sánchez-Moreno, Manuel Calvo-Rathert, Avto Gogichaishvili, **Giorgi Vashakidze**, Vladimir A. Lebedev, Juan Morales, Angel Carrancho, Juan José Villalán,

- Ana Caccavari. AGU (American Geophysical Union) Fall Meeting. San Francisco 2015. Abstracts.
18. Estudio paleomagnético preliminar de lavas cretácicas y paleógenas del distrito de Bolnisi, Cáucaso menor, Georgia. Bógalo M.F., Calvo-Rathert M., Gogichaishvili A., **Vashakidze G.**, Dudaury O.Z., Villalain J.J., Carrancho Á. 4ª REUNIÃO BIENAL LATINMAG 2015. São Paulo - SP. Brazil. Abstracts, PT.01.02.
 19. Registro de transiciones de polaridad en coladas volcanicas pliocenas de la meseta de Djavakheti (Cáucaso menor): el caso de la secuencia de Apnia. Sánchez-Moreno E.M., Calvo-Rathert M., Gogichaishvili A., **Vashakidze G.T.**, Lebedev V.A., Carrancho Á., Villalain J.J., Caccavari A., Devidze M., Principe C. 4ª REUNIÃO BIENAL LATINMAG 2015. São Paulo - SP. Brazil. Abstracts, CO.14.
 20. Datos paleomagnéticos y de paleointensidad registrados en dos secuencias de coladas basálticas de la región volcánica de Djavakheti (República de Georgia). Elisa Maria Sánchez-Moreno, Manuel Calvo-Rathert, Avto Gogichaishvili, **Giorgi Vashakidze**, Vladimir A. Lebedev, Juan Morales, Angel Carrancho, Juan José Villalain, Ana Caccavari. Reunión Anual 2015 de la Unión Geofísica Mexicana. Puerto Vallarta, Jalisco, México. Geos vol. 35, Nº1 GEOPAL-6, pp. 85.
 21. Estudio paleomagnético y de paleointensidad en una secuencia pliocénica de lavas basálticas en el cáucaso menor, Georgia. Ana Caccavari Garza, Avto Gogichaishvili, Manuel Calvo-Rathert, Juan Morales, Miguel Cervantes, **Goga Vashakidze**, He Huaiyu, Vladimir A. Lebedev, Néstor Vegas. Reunión Anual 2015 de la Unión Geofísica Mexicana. Puerto Vallarta, Jalisco, México. Geos vol. 35, Nº1 GEOPAL-26 CARTEL, pp. 89-90.
 22. History of Kazbek neovolcanic center (Greater Caucasus) (Based on isotope-geochronological data). A.V. Parfenov, V.A. Lebedev, **G.T. Vashakidze**, Q.A. Gabarashvili. 1st International Scientific Conference of Young Scientists and Specialists - "The role of multidisciplinary approach in solution of actual problems of fundamental and applied sciences (Earth, technical and chemical)". Baku, Azerbaijan 2014. Abstracts.
 23. Análisis de la variación paleosecular registrada en secuencias basálticas pliocenas: los ejemplos de Korxi y Apnia (Djavakheti, sur de Georgia, Cáucaso). Elisa Maria Sánchez Moreno, Manuel Calvo-Rathert, Avto Gogichaishvili, **Goga Vashakidze**, Angel Carrancho, Juan José Villalain, Jemal Sologashvili, Juan Morales. Reunión Anual 2014, UGM (Unión Geofísica Mexicana). Puerto Vallarta, Jalisco, México 2014. Geos. vol. 34, Nº1 GEOPAL-2, pp. 126-127.
 24. Estudio de paleointensidad en una secuencia de coladas volcánicas plio-cuaternarias en el cáucaso menor, Georgia. Ana Caccavari Garza, Manuel Calvo-Rathert, Avto Gogichaishvili, **Goga Vashakidze**, Juan Morales, Néstor Vegas. Reunión Anual 2014, UGM (Unión Geofísica Mexicana). Puerto Vallarta, Jalisco, México 2014. Geos vol. 34, Nº1 GEOPAL-12 CARTEL, pp. 130.
 25. A paleomagnetic and rock-magnetic study of Pliocene and Pleistocene lava flow sequences from the Lesser Caucasus (Southern Georgia). Elisa Maria Sánchez, Manuel Calvo-Rathert, Avto Gogichaishvili, **Goga Vashakidze**, V.A. Lebedev, Carrancho A., Villalain J.J., Marina Devidze, Claudia Principe. 14th Castle Meeting New trends on paleo, rock and environmental magnetism. ÉVORA, PORTUGAL. 2014. Abstracts, pp. 1-2.
 26. Evolution of Sr-Nd of isotope characteristics of the mantle source of the main Pliocene volcanism of the Javakheti Plateau in time (South Georgia). V.A. Lebedev, **G.T. Vashakidze**, Yu.V. Goltzman, E.D. Bairova. XX Symposium on Isotope Geochemistry dedicated to the Acad. Member A.P. Vinogradov. Moscow, 2013. Abstracts, pp. 209-212.
 27. Evolution History and Petrogenesis of Quaternary Lavas of Kazbegi Neovolcanic Centre (of the Greater Caucasus): results of isotope researches. A.V. Parfenov, V.A. Lebedev, S.N. Bubnov,

- G.T. Vashakidze**, Yu.V. Goltsman. XX Symposium on Isotope Geochemistry dedicated to the Acad. Member A.P. Vinogradov. Moscow, 2013. Abstracts, pp. 257-261.
28. New Paleomagnetic and paleointensity data from Pliocene lava flows from the Lesser Caucasus. Manuel Calvo Rathert, María Felicidad Bógalo, AvtoGogichaishvili, Jemal Sologashvili, **GogaVashakidze**. Union Geofisica Mexicana. Puerto Vallarta, México 2012. Geos vol. 32, No1 (SE10-23), pp. 205-207.
 29. Estudio de la variación paleosecular de campo magnético terrestre en una secuencia volcánica en la meseta de Djavakheti (Sur de Georgia-Cáucaso menor). Ana Caccavari Garza, Néstor Vegas, Bertha Aguilar, Manuel Calvo Rathert, Avto Gogichaishvili, **Goga Vashakidze**. Union Geofisica Mexicana. Puerto Vallarta, México, 2012. Geos vol. 32, No1(SE10-46 CARTEL), pp. 211-213.
 30. Main phase of magmatic activity of Keli volcanic center (Greater Caucasus). **G. Vashakidze**, V. Lebedev, R. Akhvlediani, Q. Gabarashvili. The international scientific conference "Problems of geology of the Caucasus", dedicated to the 85-th anniversary of Alexandre Janelidze Institute of Geology. Tbilisi, 2010. Abstracts, pp. 114-115.
 31. Typomorphism of feldspars of Mesozoic intrusive rocks. **G.T. Vashakidze**, R.A. Akhvlediani. Scientific session dedicated to the 100th anniversary of Academician Petre Gamkrelidze. Tbilisi, 2003.
 32. Middle Jurassic volcano-plutonic association of the Southern Slope of the Greater Caucasus (within the limits of Georgia). O. Dudaury, M. Togonidze, **G. Vashakidze**, M. Lordkipanidze. Scientific session dedicated to the 100th anniversary of Academician Petre Gamkrelidze. Tbilisi, 2003.
 33. Development of Late Quaternary reference material for K-Ar dating. I.V. Chernyshev, V.A. Lebedev, M.M. Arakelians, O.Z. Dudaury, **G.T. Vashakidze**. I Russian Conference on Isotope Geochronology. Moscow, 2000. Abstracts, pp. 384-386 (in Russian).
 34. K-Ar age of the granitoids of the Daryal Gorge. O.Z. Dudaury, G.K. Tsimakuridze, **G.T. Vashakidze**, M.G. Togonidze. I Russian Conference on Isotope Geochronology. Moscow, 2000. Abstracts, pp. 35-138 (in Russian).
 35. Geochronology of the processes of ore-bearing systems formation of Georgia. V.I. Buadze, O.Z. Dudaury, **G.T. Vashakidze**, M.G. Togonidze. I Russian Conference on Isotope Geochronology. Moscow, 2000. Abstracts, pp. 73-75 (in Russian).
 36. Regional Problems of Isotope Geology. O. Dudaury, M. Togonidze, **G. Vashakidze**. Abstracts of the session dedicated to the 90th anniversary of G. Zaridze. Tbilisi, 1998, pp. 25-29 (in Georgian).
 37. Results of isotopic dating of pre-Jurassic igneous rocks of Georgia and their geological interpretation. O. Dudaury, M. Togonidze, **G. Vashakidze**, K. Bakuradze. Abstracts of dedicated to the 70th anniversary of Geological Institute. Tbilisi, 1995, pp. 29-30.
 38. Isotopic age of granitoids of the Transcaucasian crystalline massif. O.Z. Dudaury, M.G. Togonidze, **G.T. Vashakidze**. Intern. Scientific Petrological. Conf., Tbilisi, 1994, Abstracts, p. 2.
 39. Main results of isotopic dating of igneous rocks of the Loki massif. **G. Vashakidze**. of the session dedicated to the 60th anniversary of the Geological Society. Tbilisi, 1993. Abstracts, pp. 51-52.
 40. Status and prospects of isotope dating of endogenous ore deposits of Georgia. O.Z. Dudaury, **G.T. Vashakidze**, M.G. Togonidze, N.D. Kantaria, K.E. Janelidze, G.I. Meparishvili, A.A. Mayer. All-Union Meeting "Isotope dating of endogenous ore formations". Tbilisi, 1990. Abstracts, pp. 33-35.
 41. K-Ar age of granitoids of the Transcaucasian Median Massif. Dudaury O., Togonidze M., **Vashakidze G.** Isotope Kolloquium Kurreferate, Freiberg, 1988, p. 28.

Grant projects

1. 2000-2001 – Georgian Academy of Sciences - Mineralogy, Geochemistry and Isotope Geochronology of the Rocks Building Dzirula Crystalline Massif, Key personnel;
2. 2002-2003 – Georgian Academy of Sciences - Main Peculiarities of Middle Jurassic Magmatism Development in Georgia, Key personnel;
3. 2004-2005 – Georgian Academy of Sciences - Meso-Cenozoic Teshenites of Georgia, Key personnel;
4. 2016-2019 – Shota Rustaveli National Science Foundation of Georgia, GNSF project #217942. Structure, time and magnitude of deformation of the eastern Achara-Trialeti fold and thrust belt, Key personnel.

Additional Information

1990-2008 – Member of Scientific Council of Al. Janelidze Institute of Geology;

2000 - 2006 – Secretary Scientific of Al. Janelidze Geological Institute;

2000 - 2008 – Member of Editorial Board of the Proceedings of Al. Janelidze Institute of Geology.