



**David Shengelia**

**Position**

Head of the Department of Petrology, Volcanology, Mineralogy and Lithology of Alexandre Janelidze Institute of Geology of Ivane Javakhishvili Tbilisi State University, Chief Scientist.

**Scientific/academic degree, title**

Doctor of geological-mineralogical sciences (1975)  
Doctoral thesis – “Petrology of Paleozoic granitoids of the North Caucasus”.

Academician of the Georgian National Academy of Sciences.

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**Education**

1951-1956 – Polytechnic Institute of Georgia, Geology and Exploration of Mineral Deposits, Mining engineer-geologist.

**Employment history**

2017 - present – Department of Mineralogy, Petrology, Lithology and Volcanology of Alexandre Janelidze Institute of Geology of Ivane Javakhishvili Tbilisi State University, Principle Scientist;

2009 - present – Head of the Department of Mineralogy, Petrology, Lithology and Volcanology of Alexandre Janelidze Institute of Geology of Ivane Javakhishvili Tbilisi State University;

1996-2009 – Head of the Department of Petrology of Alexandre Janelidze Institute of Geology;

1979-1996 – Head of the Department of Mineralogy, Petrology and Geochemistry of the Technical University of Georgia;

1966-1996 – Department of Petrology of Geological Institute of Georgian Academy of Sciences, Senior scientist;

1956-1966 – Department of Petrology of Geological Institute of Georgian Academy of Sciences - Junior scientist;

1958-1961 – Postgraduate student of Geological Institute of Georgian Academy of Sciences.

### **Research interests**

Problems of granite formation, petrologic-mineralogical research, geothermobarometry, isotope geochronology, the role of tectonics in the processes of regional metamorphism and formation of igneous rocks.

### **Publications of 2000-2022**

1. **D. Shengelia**, L. Shumlyanskyy, G. Chichinadze, T. Tsutsunava, G. Beridze, I. Javakhishvili (2022). U–Pb LA-ICP-MS geochronology of polygenetic zircons from Beshta and Kamenistaya intrusions (the Greater Caucasus). *ActaGeochimica*.  
<https://doi.org/10.1007/s11631-022-00558-7>
2. I. Javakhishvili, **D. Shengelia**, L. Shumlyanskyy, T. Tsutsunava, G. Chichinadze, G. Beridze (2021). Metamorphism of the Dizi Series Rocks (the Greater Caucasus): Petrography, Mineralogy and Evolution of Metamorphic Assemblages. *Baltica*, 34 (2), 185–202. Vilnius. ISSN 1648-858X. <https://doi.org/10.5200/baltica.2021.2.5>
3. I. Gamkrelidze, **D. Shengelia**, G. Chichinadze, Yuan-Hsi Lee, A. Okrostsvaridze, G. Beridze, K. Vardanashvili (2020). U–Pb LA–ICP–MS dating of zoned zircons from the Greater Caucasus pre-Alpine crystalline basement: Evidence for Cadomian to Late Variscan evolution. *GEOLOGICA CARPATHICA*, Vol. 71, №3, pp. 249–263.  
a. <https://doi.org/10.31577/GeolCarp.71.3.4>
4. **D. Shengelia**, G. Chichinadze, T. Tsutsunava, G. Beridze, I. Javakhishvili (2020). On the Regional Metamorphism of pre-Variscan Orthogneisses of Beshta and Mount Kamenistaia Inlier. *Proceedings of the Al. Janelidze Institute of Geology, New Series*, №132, pp. 26-36. (in Georgian).
5. I. Gamkrelidze, **D. Shengelia**, G. Chichinadze, T. Tsutsunava, G. Beridze, I. Javakhishvili (2019). Geology of the Loki Crystalline Massif (Caucasus) (Explanatory note of the 1:50 000 Scale Digital Geological Map). *Proceedings of the Al. Janelidze Institute of Geology, New Series*, no. 131. 87 p. (in Georgian).
6. I. Gamkrelidze, **D. Shengelia**, G. Chichinadze, T. Tsutsunava, G. Beridze, T. Tsamalashvili, K. Tedliashvili, I. Javakhishvili (2018). Petrology, Geochemistry and Formation Conditions of Pre-Alpine Metabasites of the Loki Crystalline Massif (the Caucasus). *Bulletin of the Georgian National Academy of Sciences*, Vol.12, №4. Pp.78-86.

7. *G.Chichinadze, D.Shengelia, T.Tsutsunava, N.Maisuradze, G.Beridze* (2018). Jalovchat Gabbroic Intrusive of the Caucasus: Petrological Study, Geochemical Peculiarities and Formation Conditions. World Academy of Science, Engineering and Technology. International Journal of Geological and Environmental Engineering, Vol.12, №5,pp. 1700-1704.
8. *D. Shengelia, K. Chikhelidze, M. Togonidze, G. Beridze, K. Gabarashvili, I. Javakhishvili* (2017). Genetic Typification of Zircons from Infrastructure of the Elbrus Subterranean (Caucasus). Bulletin of the Georgian National Academy of Sciences, Vol.11, №1. Pp. 85-89. <http://science.org.ge/bnas/vol-11-1.html>
9. *K.Vardanashvili, D.Shengelia, T.Tsutsunava, G.Chichinadze, N.Maisuradze* (2017). New Geologic-petrological Data on the Klich Gabbro-diorite Intrusive (the Caucasus)". Bulletin of the Georgian National Academy of Sciences, Vol. 11, №2, pp. 76-80.
10. *D.Shengelia, T.Tsutsunava, G.Chichinadze, G.Beridze* (2015). New Data on the Metamorphism of the Dizi Series. Proceedings of the Al. Janelidze Institute of Geology, New Series, № 127, pp. 117-123. (in Georgian).
11. *D. Shengelia, T. Tsutsunava, G. Chichinadze, G. Beridze* (2014). Some Questions on Structure, Variscan Regional Metamorphism and Granitoid Magmatism of the Caucasian Terrane Crystallinum. Bulletin of the Georgian National Academy of Sciences, Vol.8, №3. pp. 56-63. [http://science.org.ge/old/moambe/8-3/Shengelia\\_8\\_3.pdf](http://science.org.ge/old/moambe/8-3/Shengelia_8_3.pdf)
12. *E.Gamkrelidze, D.Shengelia, O.Dudauri, T.Tsutsunava, G.Chichinadze* (2014). Precambrian regional Metamorphism and Magmatism of Georgia and Geodynamics of the Caucasus. Mineralogical Journal (Ukraine), Vol.36, N3, pp. 98-113.
13. *D.Shengelia, L.Shubitidze, Sun-Lin Chung, Han-Yi Chiu, P.Treloar* (2012). New Data on the Formation and Age of Orthoclase Gabbro of the Dzirula Crystalline Massif (Georgia). Bulletin of the Georgian National Academy of Sciences, Vol.6. №3, pp. 75-82.
14. *F.Mayringer, P.Treloar, A.Gerdes, F.Finger, D.Shengelia* (2011). New age data from the Dzirula massif, Georgia: implications for the evolution of the Caucasian Variscides". American Journal of Science, Vol. 311, pp. 404-441.
15. *I.Gamkrelidze, D.Shengelia, T.Tsutsunava, Sun-Lin Chung, Han-Yi Chiu, K.Chikhelidze* (2011). New data on U-Pb zircon age of pre-Alpine crystalline basement of the Black-Sea-Central Transcaucasian terrane and its geological significance. Bulletin of the Georgian National Academy of Sciences, Vol.5, №1. pp. 119-131.
16. *D.Shengelia, I.Gamkrelidze, T.Tsutsunava, G.Chichinadze, K.Vardanashvili, N.Maisuradze* (2010). Petro and geochemistry of Early Variscan granitoids of the Caucasus. Al. Janelidze Institute of Geology, Proceedings, New series, vol. 125, pp.8-24.
17. *D. Shengelia, O. Dudauri, K. Chikhelidze* (2010). U-Pb Isotope Geochronology of the Pre-Alpine Formations of the Dzirula Crystalline Massif (Georgia) According to Zircons. Al. Janelidze Institute of Geology, Proceedings, New series, vol. 125, pp.51-61. (in Georgian).
18. *D. Shengelia, I. Gamkrelidze, T. Tsutsunava, G. Chichinadze, N. Maisuradze, K. Vardanashvili* (2008). About Geochemistry of Early Variscan Granitoids of the Main Range of the Caucasus. Bull. Acad. Sci. of Georgia, V.2 N.2, pp. 59-63.
19. *Shengelia D., Gamkrelidze I., Tsutsunava T., Shubitidze L.* (2008). New Petro- and Geochemical Data on Precambrian Magmatites of the Caucasus. Al. Janelidze Institute of Geology, Proceedings, New series, vol. 124. Pp. 190-203.

20. **Shengelia D.**, Gamkrelidze I., Tsutsunava T., Shubitidze L. (2008). Petro- and geochemical characteristic and conditions of formation of Late Variscan granitoids of the Caucasus. Al. Janelidze Institute of Geology, Proceedings, New series, vol. 124. Pp 204-221.
21. Gamkrelidze I., **Shengelia D.** (2007). Pre-Alpine Geodynamics of the Caucasus, Suprasubduction Regional Metamorphism and Granitoid Magmatism. Bull. Acad. Sci. of Georgia V.175, N1. Pp 57-65.
22. **Shengelia D.**, Tsutsunava T., Shubitidze L. (2006). New Data on Structure, Composition and Regional Metamorphism of the Tsakhkunyats and Akhum-Asrikchay Massifs (the Lesser Caucasus). Doklady of Acad. Sci. of Russia. V. 409. № 6. Pp. 1-6.
23. **Shengelia D.**, Tsutsunava T. (2005). New data on metamorphic complexes of the Miskhan crystalline massif. Bull. of Georgian Acad. of Sci. V. 173, N 2. Pp. 294-296.
24. Gamkrelidze I.P., **Shengelia D.M.** (2005). Precambrian-Paleozoic Regional Metamorphism, Granitoid Magmatism and Geodynamics of the Caucasus. "Nauchnyi Mir", Moscow. 479 p. (English summary). (in Russian).
25. Gamkrelidze I., **Shengelia D.**, Dudaury O., Tsutsunava T. O. (2004). Precambrian Time in the Caucasus. Mineralogical Journal (Ukraine), v.26, N3, p. 53-61.
26. Gamkrelidze I., **Shengelia D.** (2004). Pre-Alpine geodynamics of the Caucasus, granite formation and regional metamorphism. Al. Janelidze Institute of Geology, Proceedings, New series, vol. 119, pp.23-39. (in Russian).
27. Gamkrelidze I., **Shengelia D.** (2004). New data on the age, composition and interrelation of Caucasus pre-Alpine crystalline basement constituent rocks. Al. Janelidze Institute of Geology, Proceedings, New series, vol. 119, pp. 406-423. (in Russian).
28. **Shengelia D.**, Okrostsvaridze A. (2003). Facing magmatic and metamorphic rocks of Georgia. In: Industrial minerals and building stones. Istanbul. Pp. 71-76.
29. Gamkrelidze I., Dudaury O., Nadareishvili G., Skhirtladze N., Tutberidze B., **Shengelia D.** (2002). Geodynamic tipification of Precambrian-Phanerozoic magmatism of Georgia. Al. Janelidze Institute of Geology, Proceedings, New series, vol. 117, pp. 105-126. (in Russian).
30. Gamkrelidze I., Kvinikadze M., Nadareishvili G., **Shengelia D.** (2002). Indeed all diabases of the Greater Caucasus have Late Tertiary age? Al. Janelidze Institute of Geology, Proceedings, New series, vol. 117, pp. 408-411.
31. Gamkrelidze P., **Shengelia D.** (2001). Origin of the Igneous Rocks of the Dzirula Crystalline Massif (Caucasus) in Light of the Tectonic Layering of the Earth's Crust. Geotectonics. Vol. 35. N1. P. 51-61.
32. Loladze T., **Shengelia D.**, Okrostsvaridze A, Loladze N. (2000). The Prospects of Using the Magmatic and Metamorphic Rocks of Georgia as Facing Material. Bull. Acad. Sci. of Georgia, 162, N1, p.120-128.
33. **Shengelia D.** (2000). Mono- and Polycyclic Regional Metamorphism of the Crystalline Basement of the Caucasus. Al. Janelidze Institute of Geology, Proceedings, New series, vol. 117, pp. 282-299. (in Russian).

**Selected works published before 2000**

1. Zaridze G., **Shengelia D.**, Chichinadze G., Baranov G. (1999). Map of Metamorphic Formations of the Greater Caucasus Crystalline Basement. Scale 1:200 000. Tbilisi.

2. **Shengelia D., Okrostsvaridze A.**, (1998). New Data on the Structure of the Dzirula Salient Pre-Alpine Basement of the Georgian Block. Doklady of the Acad. Sci. of Russia, Moscow. V. 359, №6, pp. 801-803.
3. **Shengelia D., Korikovskiy S., Chichinadze G., Kakhadze R., Somin M., Potapenko V., Okrostsvaridze A., Poporadze N.** (1997). The Map of Metamorphic facies of the Crystalline Basement of the Greater Caucasus; Scale 1:200 000. The Georgian Technical University, Institute of Ore Deposits Petrography, Mineralogy and Geochemistry of Russia. Tbilisi.
4. **Shengelia D., Korikovskiy S., Chichinadze G., Kakhadze R., Somin M., Potapenko V., Okrostsvaridze A., Poporadze N.** (1995). Metamorphic facies of the Great Caucasus. Moscow - Tbilisi: Metsniereba, 71 p. (in Russian).
5. **Shengelia D., Korikovskiy S., Chichinadze G., Mgaloblishvili I., Kakhadze R., Poporadze N., Somin M., Potapenko V., Ketskhoveri D., Okrostsvaridze A., Shengelia M., Tsutsunava T., Gerasimov B., Perchuk A.** (1991). Petrology of Metamorphic Complexes of the Greater Caucasus. Moscow. "Nauka". 232 p. (in Russian).
6. **Shengelia D.M., Vashakidze G.T., Poporadze N.G.** (1989). New data on metamorphites of the Loki crystalline salient of the Transcaucasian massif // DAN SSSR, 308, No. 3, pp. 694-698.
7. **Shengelia D., Chichinadze G., Ketskhoveri D., Mgaloblishvili I., Kakhadze R., Poporadze N., Tsutsunava T., Shengelia M.** (1986). Petrology of Metamorphites of the Atsgara Nappe in the North Caucasus. Bull. of the Academy of Sciences of the USSR, series geology, №5, pp.17-27. (in Russian).
8. **Zaridze G.M., Shengelia D.M.** (1985). Die defomation und der metamorphismus. Sixth Colloquium on Geology of the Aegean Region. PIRI REIS International Contribution Series Publication, №2, Izmir – Turkey, p.709-714.
9. **Shengelia D., Chichinadze G.**, (1985). Large-scale Geological Mapping of Metamorphic Formations on the Example of the Caucasus. Collective monograph and geological map. Proceedings of Geological Institute of the Academy of Sciences of GSSR, new series, issue 87. 107 p.
10. **Shengelia D., Chichinadze G., Ketskhoveri D., Mgaloblishvili I., Kakhadze R., Poporadze N.** (1984). New Data on the Atsgara Nappe in the North Caucasus. Proceedings of the Academy of Sciences of the USSR, vol. 274, #6, 1450-1453. (in Russian).
11. **Shengelia D., Ketskhoveri D.** (1982). Regional metamorphism of low and moderate pressures in Abkhazia. Proceedings of Geol. Inst. of the Acad. Sci. of the GSSR, v. 78, 207 p. (in Russian).
12. **Zaridze G., Shengelia D.** (1978). Hercynian magmatism and metamorphism of the Greater Caucasus in the light of plate tectonics. Bull. Soc. Geol. France, xx, N3, p.355-359.
13. **Zaridze G., Shengelia D.** (1978). Magmatism and Metamorphism in the Paleozoic of the Greater Caucasus in the Light of Lithosphere Plate Tectonics. Geotectonics. #4, 64-69. 9in Russian).
14. **Shengelia D., Mico O., Bezac V.** (1978). Stanovenie stupna regionalnej metamorfosy hornin hronskeho komplexu veporidneho Krystalinika pomocou grafitoveho geotermometra. Mineralia Slovaca, 10, 4, p.321-328.
15. **Zaridze G., Shengelia D.** (1977). Metamorphismus, granitoidbildung und plattectonic im Grossen Kaukasus //Acta Geologica Acad. Sci. Hungaricae. Budapest, 21(1-3), p.99-103.

16. **Shengelia D.** *Akhvlediani R. Ketskhoveri D.* (1977). Graphite Thermometer. Proceedings of the Acad. Sci. of the USSR, vol. 235, #6, 1407-1409. (in Russian).
17. **Shengelia D.** *Chichinadze G., Ketskhoveri D.* (1975). Black K-feldspars from the Crystalline Schists of Abkhazia. Papers of the Academy of Sciences of the USSR, vol. 244, #1, 186-189. (in Russian).
18. *Adamia Sh., Zaridze G., Tatrishvili N., Shengelia D.* (1975). The Time and Conditions of the Formation of the Crystalline Core of the Greater Caucasus. Proceedings of "VUZ". "Geologia i razvedka", #7, 3-10. (in Russian).
19. **Shengelia D.** (1975). Blue-green Hornblendes of Metamorphic Rocks. In: Minerals and Mineral Parageneses of Metamorphic and Metasomatic Rocks. All-Union Mineralogical Society. Nauka. L., 72-84.
20. **Shengelia D.** (1974). Muscovites of Paleozoic Granitoids and Pegmatites of the Northern Slope of the Greater Caucasus. Proceedings of "VUZ". "Geologia i razvedka", #11, 58-64. (in Russian).
21. **Shengelia D.** (1973). Iron-rich Muscovite in Paleozoic Diaphthorites of the North Caucasus. Papers of the Academy of Sciences of the USSR, vol. 209, #4, 937-939. (in Russian).
22. **Shengelia D.** (1973). On the Equilibrium of Hornblende and Muscovite in Paleozoic Diaphthorites of the North Caucasus. Papers of the Academy of Sciences of the USSR, vol. 210, #1, 195-198. (in Russian).
23. **Shengelia D.** (1972). Petrology of Paleozoic Granitoids of the North Caucasus. Proceedings of Geol. Inst. of the Academy of Sciences of GSSR, v.34, 263 p. (in Russian).
24. *Afanas'ev G.D., Rubinshtein M.M., Shengelia D.* (1969). New Data on the Caledonian Granitoids of the North Caucasus. Papers of the Academy of Sciences of the USSR, vol. 189, #2, 363-365. (in Russian).
25. **Shengelia D.** (1968). Granulitic Facies of the Greater Caucasus. Proceedings of the Academy of Sciences of the USSR, ser. geol., #7, 23-33. (in Russian).
26. **Shengelia D., Ketskhoveri D.** (1968). On the North Caucasian Zonal Plagioclases of Metamorphic Origin. Proceedings of "VUZ". "Geologia i razvedka", #1, 23-28. (in Russian).
27. **Shengelia D., Ketskhoveri D.** (1966). Metasomatic Zonal Plagioclases in the Tseisi Granitoid Massif in the Northern Caucasus. Papers of the Academy of Sciences of the USSR, vol. 166, #6, 1429-1432. (in Russian).
28. **Shengelia D.,** (1965). Petrology of the Daryal Massif. Proceedings of Geol. Inst. of the Academy of Sciences of the GSSR, v. 4, 104p. (in Russian).

### **Index of citation:**

*Web of Science – 43, h-i - 2; Scopus – 75, h-i –5; Google Scholar – 301, h-i- 9; Research Gate –417, h-i – 11.*

### **Participation in scientific forums in 2000-2022**

1. Petrogenic Model some of Caucasian Magmatites in the Light of Tectonic Layering of the Earth's Crust. Gamkrelidze I., **Shengelia D.** 2000, 31st International Geological Congress. p.2.

2. The Pre-Alpine Geodynamic Evolution, Magmatism and Metamorphism of the Caucasus. Gamkrelidze I., **Shengelia D.**, Tsutsunava T. Abst. of 32nd International Geological Congress (32IGC). 2004. Florence, Italy, p. 1244.
3. Precambrian Regional Metamorphism, Magmatism and Geodynamics of the Caucasus. Gamkrelidze I., **Shengelia D.**, Tsutsunava T.N. Institute of Earth Sciences, Bundelkhand University, 2005, Jhansi, India. Pp. 197-200.
4. Importance of Magmatism in Formation of Continental Crust. **Shengelia D.**, Gamkrelidze I., Tsutsunava T., Chichinadze G., Vardanashvili K., Maisuradze N. The 33th International Geological Congress. Symposium title: General contributions to igneous petrology. 2008, Oslo, Norway.
5. New age data from the Dzirula Massif, Georgia: implications for Variscan evolution of the Caucasus. Treloar P., Mayringer F., Finger F., Gerdes A., **Shengelia D.** 2<sup>nd</sup> International Symposium on the Geology of the Black sea Region. 2009, MTA Ankara, Turkey. Pp. 204-205.
6. New data on of the age crystalline basement of the Black-Sea-Central Transcaucasian and Greater Caucasian terranes and their significance for petrogenetic and geodynamic constructions. **D.Shengelia**, I.Gamkrelidze, T.Tsutsunava, Sun-Lin Chung, Han-Yi Chiu, P.Treloar. The International Scientific Conference "Problems of Geology of the Caucasus". Tbilisi, Georgia, 2010. Abstract book, pp. 96-98.
7. Neoproterozoic and Paleozoic suprasubduction regional metamorphism, granitoid magmatism and geodynamics of the Caucasus. I.Gamkrelidze, **D.Shengelia**, T.Tsutsunava, O.Dudauri, G.Chichinadze, M.Togonidze. XIX Congress of the Carpathian-Balkan Geological Association. Thessaloniki, Greece. 2010.
8. Main stages of pre-Alpine continental crust formation of the Black Sea – Central Transcaucasian terrane. I.Gamkrelidze, **D.Shengelia**, T.Tsutsunava, G.Chichinadze. 3<sup>rd</sup> International Symposium on the Geology of the Black sea Region. Bucharest, Romania. 2011.
9. Pre-Alpine multy-stage regional metamorphism and granitoid magmatism of the Caucasus. I.Gamkrelidze, **D.Shengelia**, T.Tsutsunava. The International Congress, Natural Cataclysms and Global Problems of the Modern Civilization". Proceedings. 2012. Istanbul, Turkey. Pp.195-204.
10. Stages and conditions of formation of granitoids of Georgia. Dudauri O.Z., Gamkrelidze I.P., **Shengelia D.M.**, Tsutsunava T.N., Togonidze M.G., Chichinadze G.L. Scientific conference "Granitoids: Conditions of formation and ore content". Kyiv, Ukraine, 2013, p. 53-54.
11. Comparative characteristic of the Variscan regional metamorphism and magmatism of the Elbrus and Pass subterrane of the Greater Caucasian terrane. **D.Shengelia**, T.Tsutsunava, G.Chichinadze, N.Maisuradze, K.Vardanashvili. 1<sup>st</sup> International CATM Conference. Georgia, Tbilisi. 2013.
12. Main Stage of Geodynamic Evolution of the Caucasian Segment of the Alpine-Mediterranean Belt. E.Gamkrelidze, **D.Shengelia**, F.Maisadze, T.Tsutsunava, G.Chichinadze. European Geosciences Union General Assembly. Vienna, Austria. 2013.
13. Precambrian Regional Metamorphism and Magmatism of Georgia and Geodynamics of the Caucasus. E.Gamkrelidze, **D.Shengelia**, O.Dudauri, T.Tsutsunava, G.Chichinadze. Geochronology and geodynamics of the Precambrian (3.6-1.6 milliard years) of the Eurasian continent. Mineralogical Journal (Ukraine), Vol. 36, N3. 2014, pp. 98-113.
14. Han-Yi Chiu, Sun-Lin Chung, **D.Shengelia**, Z.Javakhishvili, A.Okrostsvaridze, Fu-Yuan Wu, Hao-Yang Lee, Yoshiiyuki Izuka. Zircon Hf isotopic constrains on the petrogenesis of the Dzirula complex in Georgian Caucasus: the existence of Arabian micro-continents. Goldschmidt conference. Prague, Czech Republic, Abstract book. 2015, pp.540.

15. Chiu, H.-Y., Chung, S.-L., **Shengelia, D.M.**, Okrostsvaridze, A., Javakhishvili, Z., Lee, H.-Y., Wang, K.-L., 2016. Discovery of ANS-derived ribbon continent in Georgian Caucasus: Zircon Hf isotopic constraints and implications for the Cimmerian orogeny. Goldschmidt Conference, 2016, Yokohama, Japan, Abstract, 2016, pp. 483.
16. Petrogenetic and geodynamic types of Late Paleozoic (Sudetic) granitoids of the Caucasus. **D.Shengelia**, T.Tsutsunava, G.Chichinadze, G.Beridze, K.VardanaSvili, I.Javakhishvili. The 14th Swiss Geoscience Meeting. Switzerland, Geneva, 2016. Abstract Volume 2, pp. 98-99.
17. LA-ICP-MS local zircon U-Pb dating of Late Variscan granites of the Dzirula and Khrami crystalline massifs (Georgia). **D.Shengelia**, T.Tsutsunava, G.Chichinadze, G.Beridze, I.Javakhishvili. The 14th Swiss Geoscience Meeting. Switzerland, Geneva, 2016. Abstract Volume 7, pp. 241-242.
18. Data on U/Pb zircon dating of Late Variscan granitoids of the Greater Caucasian terrane. **D.Shengelia**, T.Tsutsunava, G.Chichinadze, G.Beridze, K.VardanaSvili, I.Javakhishvili. Mineralogical Society of Georgia, 2<sup>th</sup> International Scientific-Practical Conference on Up-to-date Problems of Geology. Tbilisi, Georgia. 2016. Abstract book, pp. 120-122.
19. New U-Pb isotope-geochronological data on the Buulgen metamorphic complex and on the associated with it pre-Alpine magmatites of the Greater Caucasian Main Range zone. I. Gamkrelidze, **D.Shengelia**, G.Chichinadze, A.Okrostsvaridze, Yan-His Lee, T.Tsutsunava, G.Beridze. Mineralogical Society of Georgia, 3<sup>th</sup> International Scientific-Practical Conference on Up-to-date Problems of Geology. Tbilisi, Georgia. 2017. Abstract book, pp. 43-46.
20. Petrogenetic Model of Formation of Orthoclase Gabbro of the Dzirula Crystalline Massifs. **D.Shengelia**, T.Tsutsunava, M.Togonidze, G.Chichinadze, G.Beridze. WASET, ICGES 2017: 19th International Conference on Geological and Earth Sciences. Italy, Rome. Abstract book, p. 80.
21. Petrogeochemistry of Hornblende-bearing Gabbro Intrusive, the Greater Caucasus. G.Chichinadze, **D.Shengelia**, T.Tsutsunava, N.Maisuradze, G.Beridze. WASET, ICGES 2017: 19th International Conference on Geological and Earth Sciences. Italy, Rome. Abstract book, p. 81.
22. Petrology, Geochemistry and Formation Conditions of Metaophiolites of the Loki Crystalline Massif (the Caucasus). I.Gamkrelidze, **D.Shengelia**, G.Chichinadze, T.Tsutsunava, G.Beridze, T.Tsamalashvili, K.Tedliashvili. WASET, CGPE 2017: 19th International Conference on Geosciences and Petroleum Engineering. Spain, Madrid. Abstract book, p. 81.
23. U-Pb Dating of zonal zircons from the crystalline rocks of the Gondarai complex of the Greater Caucasian Main Range zone (Greater Caucasian terrane). I.Gamkrelidze, **D.Shengelia**, G.Chichinadze, A.Okrostsvaridze, Yan-His Lee, G.Beridze. Mineralogical society of Georgia, 4<sup>th</sup> International Scientific-Practical Conference on Up-to-date Problems of Geology. Tbilisi, Georgia. 2018. Abstract book, pp. 32-34.
24. Contact metamorphism of the Dizi series (greater Caucasus). S.Korikovskiy, **D.Shengelia**, G.Chichinadze, T.Tsutsunava, G.Beridze, I.Javakhishvili. Mineralogical society of Georgia, 4<sup>th</sup> International Scientific-Practical Conference on Up-to-date Problems of Geology. Tbilisi, Georgia.2018. Abstract book, pp. 55-59.
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### ***Scientific grants***

1. Petrology of magmatic and metamorphic formations of Georgia. 2000-2001. National Academy of Sciences of Georgia. Head of the project.
2. Regional Metamorphism and Granite-formation of the Pre-Jurassic Formations of the Greater Caucasus in the Light of the Terrane Structure of the Earth's Crust. 2002-2003. National Academy of Sciences of Georgia. Head of the project.
3. Petro-Mineralogy and Geochemistry of Precambrian Metamorphites and Magmatites of Georgia. 2004-2005. National Academy of Sciences of Georgia. Head of the project.
4. Petrology and Geodynamics of the pre-Alpine Magmatic and Metamorphic Complexes of the Black Sea-Central Transcaucasian and Bayburt-Sevanian Terranes. 2005-2006. National Academy of Sciences of Georgia. Head of the project.
5. Petrology and geodynamics of pre-Alpine complexes in the Caucasian segment of the Mediterranean fold belt. 2002-2005. INTAS Foundation, Project N01-242N. Leader from the Georgian side.
6. Creation of Scientific Centers for the Mitigation of Natural Disaster Risks in Southern Georgia and Central Asia. 2007-2010. ISTC. Principal performer.
7. English-Georgian Terminological Dictionary of Geology. 2014-2016. Shota Rustaveli National Science Foundation, AR/139/9-150/13. Key personnel.

8. 1:50 000 Scale Digital Geological Map of the Loki Crystalline Massif. 2016-2018. Shota Rustaveli National Science Foundation, № AR-135/789. Key personnel.

**Additional Information**

1992 - Laureate of the Alexandre Janelidze Award;

Since 2014 - Member of the Scientific Council of the Mineralogical Society of Georgia;

2008 წ. – Laureate of the Aleksandre Tvalchrelidze Award;

2000 - Alexander Janelidze medal.

1976-2006 – Professor at the Department of Mineralogy, Petrology and Geochemistry of the Technical University of Georgia, lecture courses: magmatic and metamorphic petrology.

1984 and 1986 - a course of lectures in Petrology at Karlov University in Prague.

**Supervisor of Candidates Dissertations and PhD theses**

1978 - G.Chichinadze – “Petrology of Crystalline Rocks of Southeastern part of the Sofia Uplift (the Caucasus)“;

1980 - I.Mgaloblishvili – “Petrology of Crystalline Rocks of Southwestern Part of the Balkaria-Digori Uplift (the Caucasus)“;

1982 - R.Kakhadze – “Petrology of Paleozoic Metamorphites of the Main Range Zone of the Greater Caucasus within the Limits of Upper Svaneti“;

1985 - N.Poporadze – “Mineralogy and Petrology of Amphibole-bearing Metamorphites of the Main Range and Fore-range of the Greater Caucasus“;

1987 - A.Okrostsvaridze – “Petrology of Paleozoic Granitoids and Migmatites of Abkhazia“;

1988 - T.Tsutsunava – “Petrology of Metamorphites of Green Schist Facies of the Greater Caucasus and the Atsgara Tectonic Nappe“;

1991 - D.Gogoladze – “Roots of Upper Cretaceous Volcanism of Southeast Georgia“;

1998 - K.Chikhelidze – “Petrology of Paleozoic Granitoids of the Dzirula Crystalline Massif“;

2005 - L.Shubitidze – “Petrology of Orthoclase Gabbro (Rikotite) of the Dzirula Crystalline Massif“;

2013 - K.Tedliashvili – “Petrology of Gneiss-migmatite Complex of the Khrami Crystalline Massif“;

2016 - G.Beridze –“Petrology of Late Variscan Magmatic and Volcanogenic-Sedimentary Formations of the Khrami Crystalline Massif”;

2022 – I.Javakhishvili – “Regional and Contact Metamorphism of the Dizi Series”.

**Consultant to Doctoral Dissertations**

1994 - N.Poporadze - “Amphiboles of Metamorphites of the Greater Caucasus and the Transcaucasian Median Massif”;

1995 - A.Okrostsvaridze - “Petrology of the Hercynian Granitoid Series of the Caucasus”;

2005 - T.Tsutsunava - “Low-temperature Regional Metamorphism of the Caucasus”.

He is the supervisor of a number of Master's theses.