

CURICULLUM VITAE

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EDUCATION AND HIGHEST DEGREE:

1987-1992, Geological faculty, Yerevan State University.

1993-1996, PhD Student, Institute of Geological Sciences, Armenian National Academy of Sciences.

2000, PhD in volcanology, geology, petrology and geochemistry, from the Institute of Geological Sciences, Armenian NAS.

2018 Habilitated Doctoral Degree in volcanology, geochemistry, volcanic hazards, from the Institute of Geological Sciences, Armenian NAS.

CURRENT RESEARCH INTERESTS:

- Volcanology, petrology, geochemistry and mineralogy of recent and palaeo-volcanism of Armenia and the region, volcanic hazards, volcanic impacts on climate, geodynamic evolution of the central segment of Alpine-Himalayan belt, volcano-seismology, volcano-tectonic interactions, tephrochronology.
- Probabilistic volcanic and seismic hazard assessment for nuclear installations
- Geothermal energy resources exploration, geochemistry and isotopy of thermal waters.
- Application of trace element and isotope geochemistry in archaeological sciences, geoarchaeology, archaeometry.

PROFESSIONAL BACKGROUND:

1992-1994, laboratory assistant, Institute of Geological Sciences, Armenian National Academy of Sciences.

1994-1998, Visiting Research Fellow, Russian Academy of Sciences, Vernadsky Institute of Geochemistry, Laboratory of Petrology and Geochemistry, Moscow, Russia.

1998-2001, Research Fellow, Institute of Geological Sciences, Armenian National Academy of Sciences.

2001-2002, Visiting Research Fellow, (PostDoc) Institute of Archaeometry, Technical University- Mining Academy of Freiberg, Germany.

2001-2010, Senior research fellow, Institute of Geological Sciences, Armenian National Academy of Sciences.

2010 - Present, Head of laboratory of volcanology, Institute of Geological Sciences, Armenian National Academy of Sciences.

2012-2017, Deputy Director for Sciences, Institute of Geological Sciences, Armenian National Academy of Sciences.

2017- Present Director, Institute of Geological Sciences, and Armenian National

TEACHING ACTIVITIES:

2013 – Present. Teaching master course in volcanology, volcanic hazards, analytical methodologies in Earth Sciences, in Geology Department of International Scientific Educational Center of Armenian National Academy of sciences (ISEC Armenian NAS)

2020 – Teaching Geoconservation, University of Lille, France (Erasmus Mobility).

2025 – Present, adjunct Lecturer, American University of Armenia, Environmental geology

MAJOR GRANTS, PROJECTS AND EXPERT ACTIVITIES:

2001, INTAS 97-0840 Project: Geographic Information System for Armenian archaeological sites from the Palaeolithic to the 4th century AD.

2002-2003, PostDoc INTAS Young scientist individual Research Grant YS-01/2-81: Geochemical and isotope characterization of Armenian Eneolithic and Early Bronze Age copper based artifacts and their relation to copper ore deposits.

2002-2005. Geochemical characterization of Armenian obsidian sources, in collaboration with Institute of Archaeometry, Freiberg, Germany.

2007, Project Discovery #2007-CT-002 fellowship. (PI)

2008, Project Discovery #2008-RC-01 fellowship (PI)

2008-2012 Volcanology, petrology and geochemistry of volcanism in south Armenia, in collaboration with the University of Leeds, UK (Armenian team PI)

2009-2010 Volcanic Hazard assessment for Armenian Nuclear power plant site

2010. Volcanology, petrology and geochemistry of Pleistocene-Holocene volcanism in southern Syria. In collaboration with GORS, Damascus, Syria.

2011-2012 Volcanology, petrology and geochemistry of volcanism in north Armenia, in collaboration with the University of Durham, UK (Armenian team PI)

2012-2016 Contributor to IAEA-TECDOC-1795 "Volcanic Hazard Assessment For Nuclear Installations: Methods And Examples In Site Evaluation" as external expert

2015 IAEA expert to 7th Regional Workshop on Blind Faults and Volcano Hazards Relevant to Nuclear Power Plant Site Safety mission to Manila, Philippines, 15-19 June, 2015

2013-2016 PI, Volcanic Hazard assessment of the region of Ararat valley, Armenia, PEER Sciences grant, NAS, (funding 35,000 USD, 2 years)

2014-2017 PI Relation Of Compositions Of Deep Fluids In Geothermal Activity Of Lesser Caucasus (funding 25,000 USD, 2 years)

2015-2017 PI, -Tectonic Settings Of Quaternary Volcanism Of Kapan Block (South Armenia) And Specific Conditions Of Generation Of Magmas (funding 35,000 USD, 2 years)

2017-2020 Conceptual model of volcanism of Vardenis volcanic upland (Armenia) (funding 35,000 USD, 2 years)

2019 - Invited as expert on volcanic and seismic hazard assessment for EU NPP stress-test mission to Iran

2020-2024 Armenian team leader to IAEA RER7013 – project Evaluating Groundwater Resources and Groundwater-Surface-Water Interactions in the Context of Adapting to Climate Change

2024-Ongoing Armenian team leader to IAEA RER7017 project "Ensuring Water Availability in a Changing Climate (2024-2026)

2019-2024 Armenia Scientific leader in "Seismic Networks expansion in the

South Caucasus and Central Asia" (SNECCA) international project 774,000 USD. 4 years).

2021-2024 PI, Assessment of geothermal energy resources and natural hazards in Armenia PEER Sciences Grant, NAS, USA (funding 150,000 USD, 3 years). (funding

2022 - ongoing Contributor to IAEA-TECDOC on Volcanic Ashfall Hazards for nuclear installations, as IAEA external expert

MAJOR RECENT PUBLICATIONS AND INTERNATIONAL CONFERENCE CONTRIBUTIONS (2000-2025).

SCOPUS H-INDEX: 15 (JUNE 2025)

Books

1. Jrbashyan, R., T., Meliksetian, Kh., B., Navasardyan, G., Kh., Grigoryan, E., S., Gevorgyan, H., P., Ghukasyan, Yu., G., 2024. Catalog of Quaternary volcanoes of the Republic of Armenia. "Gitutyun", 212pp. DOI: 10.54503/978-9939-1-1809-3
2. Avagyan, A., Kh. Meliksetian, L. Sahakyan, A. Hovhanissyan, G. Galoyan, D. Arakelyan, H. Shahinyan, H. Melik-Adamyanyan, A. Grigoryan, R. Badalyan, A. Bobokhyan, M. Badalyan, T. Grigoryan, K. Sahakyan, G. Navasardyan, S. Avagyan, H. Hovakimyan, T. Atalyan, G. Alaverdyan, **2021**, Geological Hazards Focused Geopark Proposal, Armenia, NAS Armenia press, Gitutyun, 215 p.
3. Volcanic Hazard Assessment For Nuclear Installations: Methods And Examples In Site Evaluation. (**2016**), contributors: ASPINALL, W.P. , CHARBONNIER, S., CONNOR, C. B. , CONNOR, L. J. C., COSTA, A., COURTLAND, L. M., DELGADO GRANADOS, H., HIBINO, K., HILL, B. E., KOMOROWSKI, J.C., MCNUTT, S., MELIKSETIAN, K., NAKADA, S., NEWHALL, C., SAMADDAR, S. K., SAVOV, I. P., SELF, S., UCHIYAMA, Y., WILSON, T., YAMAMOTO, T. International Atomic Energy Agency TECDOC series, 1795 (IAEA-TECDOC-1795), 261 p. ISBN 978-92-0-104916-2
4. BROWN S.K., R.S.J.SPARKS, K.MEE, S.JENKINS, KH. MELIKSETIAN et al. Global volcanic Hazards and Risks: Regional and country profiles of volcanic hazard and risk: Report IV for the Global Assessment Report on Disaster Risk Reduction **2015**, UNISDR, Cambridge University Press, 797 p.

JOURNAL AND VOLUME PAPERS

1. MELIKSETIAN, K., SARGSYAN, L., KOULAKOV, I., TOGHRAADJIAN, N., BELOVEZHETS, N., BEREZHNEV, Y., (2026). Deep sources of recent volcanism in Armenia inferred from ambient noise tomography. Journal of Geophysical Research: Solid Earth, 131, e2025JB032349. <https://doi.org/10.1029/2025JB032349>
2. KOULAKOV, I., SARGSYAN, L., LEVONYAN, A., SAHAKYAN, E., GEVORGYAN, M., MELIKSETIAN, K., (2026). Magmatic and Tectonic Structures in the Crust Beneath Armenia and Surrounding Regions of Lesser Caucasus Inferred From Body-Wave Earthquake Tomography. Geochem Geophys Geosyst 27, e2025GC012592. <https://doi.org/10.1029/2025GC012592>
3. NAVASARDYAN, G., MELIKSETIAN, K., SAVOV, I.P., GEVORGYAN, H., BANGOYAN, M., GALSTYAN, A., GRIGORYAN, E., 2025. Volcanic Geoheritage and Geotouristic Potential of the Gegham Monogenetic Volcanic Upland (Armenia). Geoheritage 17, 146. <https://doi.org/10.1007/s12371-025-01170-w>
4. TONG, J.-H., TSENG, T.-L., LIN, P.-Y.P., MELIKSETIAN, K., CHANG, S.-F., HUANG, B.-S., SAHAKYAN, E., GEVORGYAN, M., SARGSYAN, L., 2025. Interaction between layered mantle flow and progressively thinned lithosphere beneath the Armenia Volcanic Highland: Evidence from seismic azimuthal anisotropy. Earth and Planetary Science Letters 671, 119641. <https://doi.org/10.1016/j.epsl.2025.119641>
5. MELIKSETIAN, K., PERNICKA, E., BADALYAN, R., SCHIFER, T., KELLER, J., GASPARYAN, B., JRBASHYAN, R., NAVASARDYAN, G., KUNZE, R., (2024) Trace Element Geochemistry of Armenian Obsidian Sources and the Provenance of Archaeological Obsidian Artefacts. in Strategies of Obsidian Procurement, Knapping and Use in the First Farming Societies Vinet, A., Guilbeau, D., Milić, B (Eds.). Verlag der Österreichischen Akademie der Wissenschaften. Pp 167-249 <https://doi.org/10.1553/978OEAW93241>
6. NEKRYLOV, N., HOVAKIMYAN, S., MELIKSETIAN, K.B., VERESS, E., BERGEMANN, C.A., HAMBARYAN, K., CHIARADIA, M., VARDANYAN, A., NAVASARDYAN, G., KORNEEVA, A., KAMENETSKY, V.S., MORITZ, R., 2025. The role of evaporite in iron oxide-apatite ore

- deposit formation: Constraints of the late Miocene Abovyan deposit, Armenia. *Lithos* 508–509, 108078. <https://doi.org/10.1016/j.lithos.2025.108078>
7. Tong, J.-H., Tseng, T.-L., Lin, P.-Y.P., Meliksetian, K., Chang, S.-F., Huang, B.-S., Sahakyan, E., Gevorgyan, M., Sargsyan, L., 2025. Interaction between layered mantle flow and progressively thinned lithosphere beneath the Armenia Volcanic Highland: Evidence from seismic azimuthal anisotropy. *Earth and Planetary Science Letters* 671, 119641. <https://doi.org/10.1016/j.epsl.2025.119641>
 8. Navasardyan, G., Meliksetian, K., Savov, I.P., Gevorgyan, H., Bangoyan, M., Galstyan, A., Grigoryan, E., 2025. Volcanic Geoheritage and Geotouristic Potential of the Gegham Monogenetic Volcanic Upland (Armenia). *Geoheritage* 17, 146. <https://doi.org/10.1007/s12371-025-01170-w>
 9. NIKOGOSIAN, I.K., BRACCO GARTNER, A.J.J., MASON, P.R.D., VAN HINSBERGEN, D.J.J., KUIPER, K., KIRSCHER, U., MATVEEV, S., GRIGORYAN, A., GRIGORYAN, E., ISRAYELIAN, A., VAN BERGEN, M.J., KOORNNEEF, J.M., WIJBRANS, J.R., DAVIES, G.R., MELIKSETIAN, K., 2023. The South Armenian Block: Gondwanan origin and Tethyan evolution in space and time. *Gondwana Research* S1342937X23001065. <https://doi.org/10.1016/j.gr.2023.03.023>
 10. MELIKSETIAN KH., NEILL I., BARFOD D.N., MILNE E.J.M., WATERS E.C., NAVASARDYAN G., GRIGORYAN E., OLIVE V., ODLING N., KARAKHANIAN A. Pleistocene-Holocene volcanism at the Karkar geothermal prospect, Armenia, *Quaternary Geochronology*, v. 66, 101201, <https://doi.org/10.1016/j.quageo.2021.101201>
 11. KUNZE, R., MELIKSETIAN, K., LOCKHOFF, N., BOBOKHYAN, A., WOLF, D., DAVTYAN, R., SIMONYAN, H., 2023. Prehistoric gold from Lake Sevan Basin? New research on Armenian gold deposits and objects. *Journal of Archaeological Science: Reports* 52, 104267. <https://doi.org/10.1016/j.jasrep.2023.104267>
 12. AVAGYAN A., SAHAKYAN L., MELIKSETYAN K., HOVHANNISYAN A., ARAKELYAN D., GALOYAN G., MELIK-ADAMYAN H., GRIGORYAN T., SAHAKYAN K., GRIGORYAN E., AVAGYAN S., SAFARYAN R. The Potential for a Geohazard-Related Geopark in Armenia. *Geoheritage* 15 (4), 2023,133. <https://doi.org/10.1007/s12371-023-00900-2>
 - 13.
 14. MELIKSETIAN KH. & E. PERNICKA, 2023, Metal Artifacts from Shengavit in the Context of Kura-Araxes Metallurgy. In *Shengavit: A Kura-Araxes Center in Armenia*, H. Simonyan, M. Rothman eds. Mazda Publishers. ISBN 10: 1-56859-394-5, pp 139-151. <http://www.mazdapublishers.com/book/shengavit>
 15. LOMAX J, D. WOLF, K. MELIKSETIAN; T. WOLPERT; L. SAHAKYAN; H. HOVAKIMYAN; D. FAUST; M. FUCHS (2022) Testing post-IR-IRSL dating on Armenian loess-palaeosol sections against independent age control, *Quaternary Geochronology*, 101265, 1871, <https://doi.org/10.1016/j.quageo.2022.101265>
 16. MARY ROBLES; ODILE PEYRON; ELISABETTA BRUGIAPAGLIA; GUILLEMETTE MÉNOT; LUCAS DUGERDIL; VINCENT OLLIVIER; SALOMÉ ANSANAY-ALEX; ANNE-LISE DEVELLE; PETROS TOZALAKYAN; KHACHATUR MELIKSETIAN, Impact of climate changes on vegetation and human societies during the Holocene in the South Caucasus (Vanevan, Armenia): A multiproxy approach including pollen, NPPs and brGDGTs-1014, *Quaternary Science Reviews*, DOI: 10.1016/j.quageo.2022.101265
 17. SUGDEN P., KH. MELIKSETIAN, I. P. SAVOV, D. BARFOD, M. WILSON, C. CONNOR, G. NAVASARDYAN, E. GRIGORYAN, D. MANUCHARYAN, Post-Collisional Shift From Polygenetic To Monogenetic Volcanism Revealed By New ⁴⁰Ar/³⁹Ar Ages In the Southern Lesser Caucasus (Armenia), *Journal of Volcanology and Geothermal Research*, Volume 412, 2021, 107192, <https://doi.org/10.1016/j.jvolgeores.2021.107192>
 18. MELIKSETIAN, KH. Discovery of Adakites within the Pliocene-Quaternary Collisional Magmatism in Armenia. *Reports NAS RA*, 2015, V. 115 (4). p., 2015, 319-328.
 19. RUBEN BADALYAN, ARMINE HARUTYUNYAN, KHACHATUR MELIKSETIAN, ERNST PERNICKA AND ROZALIA CHRISTIDOUIN Miscellaneous objects from Aknashen. pp 212–224 in *The Neolithic Settlement of Aknashen (Ararat valley, Armenia) Excavation seasons 2004-2015* edited by Ruben Badalyan, Christine Chataigner and Armine Harutyunyan. Archaeopress 2022, SBN 9781803270029.
 20. CAROLINE HAMON AND KHACHATUR MELIKSETIAN, The macrolithic industry from Aknashen, pp 168–186, in *The Neolithic Settlement of Aknashen (Ararat valley, Armenia) Excavation seasons 2004-2015* edited by Ruben Badalyan, Christine Chataigner and Armine Harutyunyan. Archaeopress 2022, SBN 9781803270029.
 21. MELIKSETIAN, KH. Plateau-basaltic volcanism in collision zones: petrology and geochemistry of pliocene-pleistocene basaltic rocks of northern and Central Armenia.. *Proceedings of the NAS RA: Earth Sciences*, V. 68 (1), 2015, p. 22-46.
 22. GEVORGYAN H., BREITKREUZ CH., MELIKSETIAN KH., ISRAYELIAN A., GHUKASYAN Y., PFÄNDER J. A., SPERNER B., MIGGINS D. P., KOPPERS A. Quaternary ring plain- and valley-confined pyroclastic deposits of Aragats stratovolcano (Lesser Caucasus): Lithofacies, geochronology and eruption history, *Journal of Volcanology and Geothermal Research*, Volume 401, 2020, pp.1-16, article 106928. <http://www.sciencedirect.com/science/article/pii/S0377027320300639>
 23. 3.HALAMA, R., KH. MELIKSETIAN, I.SAVOV, P. SUGDEN, K. SOKÓŁ. Pinched between the plates: Armenia's voluminous record of volcanic activity. *Geology Today*, v. 36, issue 3, 2020, pp. 101-108. <https://onlinelibrary.wiley.com/doi/abs/10.1111/gto.12309>
 24. 4.KIRSCHER U. GEVORGYAN H., MELIKSETIAN K., NAVASARDYAN G., DALLANAVE E., BREITKREUZ C., BACHTADSE V. Pleistocene ignimbrites of western Armenia - Paleomagnetic and magnetic anisotropy constraints on flow direction and

- stratigraphy, *Journal of Volcanology and Geothermal Research*, Volume 402, 2020, pp 1-16. <https://www.sciencedirect.com/science/article/abs/pii/S0377027320301682>
25. 5.LIN C.-M., TSENG T.-L., MELIKSETIAN KH., KARAKHANYAN A., HUANG B-SH, BABAYAN H., HU J.-C., GEVORGYAN M., CHANG SH.-F., LEVONYAN A. Locally Thin Crust and High Crustal VP/VS Ratio Beneath the Armenian Volcanic Highland of the Lesser Caucasus: A Case for Recent Delamination, *Journal of Geophysical Research: Solid Earth*, v.125, issue 9, 2020, pp. 1-16, 125, e2019JB019151. <https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2019JB019151>
 26. 6.SUGDEN P.J., SAVOV I.P., AGOSTINI S., WILSON M., HALAMA R., MELIKSETIAN KH. Boron isotope insights into the origin of subduction signatures in continent-continent collision zone volcanism, *Earth and Planetary Science Letters*, Volume 538, 2020, pp.1-11. <https://www.sciencedirect.com/science/article/pii/S0012821X20301503>
 27. 7.FIEBIG M., DANUKALOVA M., MELIKSETIAN KH. Bridging Europe and Asia: Quaternary stratigraphy and Palaeolithic human occupation in Armenia and South Georgia *Quaternary International*, Volume 509, 2019, Pages 1-2. <https://doi.org/10.1016/j.quaint.2019.04.013>
 28. P J Sugden, I P Savov, M Wilson, K Meliksetian, G Navasardyan, R Halama, The Thickness of the Mantle Lithosphere and Collision-Related Volcanism in the Lesser Caucasus, *Journal of Petrology*, Volume 60, Issue 2, February 2019, Pages 199–230,
 29. Sherriff J.E., K.N. Wilkinson, D.S. Adler, D. Arakelyan, E.J. Beverly, S.P.E. Blockley, B. Gasparyan, D.F. Mark, K. Meliksetyan, S. Nahapetyan, K.J. Preece, R.G.O. Timms, Pleistocene volcanism and the geomorphological record of the Hrazdan valley, central Armenia linking landscape dynamics and the Palaeolithic record, *Quaternary Science Reviews*, Volume 226, 2019.
 30. JRBASHYAN R. T., MELIKSETIAN KH. B., GHUKASYAN Y. G., GEVORGYAN H. P., SAVOV I., KARAPETIAN S. H., NAVASARDYAN G. KH., MANUCHARYAN D. A. The plinian eruption of Irind volcano (Aragats volcanic region, Armenia). *Proceedings of the NAS RA: Earth Sciences V. 68 (1)*, 2015, p. 3-21.
 31. H.GEVORGYAN, A.REPSTOCK, B.SCHULZ, KH. MELIKSETIAN, CH. BREITKREUZ, A. ISRAYELYAN, Decoding a post-collisional multistage magma system: The Quaternary ignimbrites of Aragats stratovolcano, western Armenia, *Lithos*, Volumes 318–319, 2018, Pages 267-282.
 32. Migliorini, M., Hagen, J., Mihaljević, J., Mysiak, J., Rossi, J., Siegmund, A., Meliksetian, K. and Guha Sapir, D. (2019), "Data interoperability for disaster risk reduction in Europe", *Disaster Prevention and Management*, Vol. 28 No. 6, pp. 796-808.
 33. K. SOKÓL, R.HALAMA, KH.MELIKSETIAN, I.P. SAVOV, G.NAVASARDYAN, M.SUDO, Alkaline magmas in zones of continental convergence: The Tezhsar volcano-intrusive ring complex, Armenia, *Lithos*, 2018, ISSN 0024-4937.
 34. NEILL I., MELIKSETIAN KH., ALLEN M. B., NAVASARDYAN G., KUIPER K. Petrogenesis of mafic collision zone magmatism: the Armenian sector of the Turkish-Iranian Plateau. *Chemical Geology*, N 403, 2015, pp. 24-41.
 35. SHETH H., MELIKSETIAN KH., GEVORGYAN H., ISRAYELYAN A., NAVASARDYAN G. Intracanyon basalt lavas of the Debed River (northern Armenia), part of a Pliocene –Pleistocene continental flood basalt province in the South Caucasus. *Journal of Volcanology and Geothermal Research*, 2015, N295, pp. 1-15.
 36. FRAHM E., B. A., SCHMIDT, B. GASPARYAN, B. YERITSYAN, S. KARAPETIAN, KH. MELIKSETIAN, D. S. ADLER. (2014). Ten seconds in the field: rapid Armenian obsidian sourcing with portable XRF to inform excavations and surveys, *Journal of Archaeological Science*, Volume 41, January 2014, Pages 333-348.
 37. BOBOKHYAN A., KH. MELIKSETIAN, B. GASPARYAN, P. AVETISYAN, C. CHATAIGNER, E. PERNICKA: Transition to Extractive Metallurgy and Social Transformation in Armenia at the End of the Stone Age. *Stone Age of Armenia*, Edited by Boris Gasparyan, Makoto Arimura, 12/2014: chapter Transition to Extractive Metallurgy and Social Transformation in Armenia at the End of the Stone Age: pages 283-369; Kanazawa University, Japan.,
 38. FRAHM E., FEINBERG J.M.,SCHMIDT-MAGEE, B., WILKINSON K.,G PARYAN B., YERITSYAN B., KARAPETIAN S., MELIKSETIAN KH., MUTH M. J., ADLER S. (2014). Sourcing geochemically identical obsidian: multiscalar magnetic variations in the Gutansar volcanic complex and implications for Palaeolithic research in Armenia 2014, *Journal of Archaeological Science* 47 p. 164-178
 39. NEILL, I, KH. MELIKSETIAN, M.B. ALLEN, G. NAVARSARDYAN, S. KARAPETIAN, Pliocene–Quaternary volcanic rocks of NW Armenia: Magmatism and lithospheric dynamics within an active orogenic plateau, *Lithos*, Volumes 180–181, 2013, Pages 200-215.
 40. MELIKSETIAN, KH., 2013, Pliocene-Quaternary volcanism of the Syunik upland. In *Archäologie in Armenien II Veröffentlichungen des Landesamtes für Denkmalpflege und Archäologie Sachsen-Anhalt – Landesmuseum für Vorgeschichte Band 67*. H. Meller and P. Avetisyan HRSG., Halle. p. 247-258.
 41. KUNZE, R., A. BOBOKHYAN, E. PERNICKA, KH. MELIKSETIAN (2013) Mit Beiträgen von R. Mkrtchyan und H. Simonyan zur Paläoanthropologie sowie Hans-Jürgen Döhle zur Archäozoologie. In *Archäologie in Armenien II Veröffentlichungen des Landesamtes für Denkmalpflege und Archäologie Sachsen-Anhalt – Landesmuseum für Vorgeschichte Band 67* H. Meller and P. Avetisyan HRSG., Halle. p. 49-88.

42. WOLF, D., G. BORG, KH. MELIKSETIAN, A. ALLENBERG, E. PERNICKA, A. HOVANISSYAN, R. KUNZE. (2013), Neue Quellen für altes Gold? In *Archäologie in Armenien II Veröffentlichungen des Landesamtes für Denkmalpflege und Archäologie Sachsen-Anhalt – Landesmuseum für Vorgeschichte Band 67.*, H. Meller and P. Avetisyan HRSG., Halle. p. 27-44.
43. CONNOR, L.J. C.B. CONNOR, KH. MELIKSETIAN, I. SAVOV. 2012. A probabilistic approach to modeling lava flow inundation. Lava flow hazard assessment for a nuclear facility in Armenia. *Journal of Applied Volcanology*, 1:3, Springer.
44. MELIKSETIAN, KH., 2012, Geochemistry of volcanic series of Aragats province, *Proceedings of the NAS RA: Earth Sciences V.3*, p. 21-45.
45. MELIKSETIAN, KH., C. CONNOR, L. CONNOR, I. SAVOV. G. NAVASARDYAN. R. HALAMA. (2011). Pleistocene - Holocene late collision volcanism of the territory of Armenia and volcanic hazard assessment. In "Worldwide early warning system of volcanic activities and mitigation of the global/regional consequences of volcanic eruptions", ISTC International, Moscow. 2010. p. 136-143.
46. MELIKSETIAN KH., S. KRAUSS, E. PERNICKA., P. AVETISSYAN, S. DEVEJIAN, L. PETROSYAN (2011). Metallurgy of prehistoric Armenia, *Der Anschnitt*, Bochum, Germany, 2011, 24, p. 201-210.
47. MELIKSETIAN, KH. H. GEVORGYAN, YU. GHUKASYAN 2010. Find of specularite in the crater of Blrashark-1 volcano (Armenia), *Journal of Earth Sciences, Armenian NAS V.3* p. 24-29.
48. KUNZE, R. A.BOBOKHNYAN, KH. MELIKSETIAN, E. PERNICKA, D. WOLF. 2011. Archäologische Untersuchungen zur Umgebung der Goldgruben in Armenien mit Schwerpunkt Sotk, Provinz Gegharkunik. *Archäologie in Armenien. Ergebnisse der Kooperationsprojekte 2010 – Ein Vorbericht*. Harald Meller und Pavel Avetissyan (HRSG.)
49. WOLF D., G. BORG, E. PERNICKA, KH. MELIKSETIAN, R. KUNZE, A.BOBOKHNYAN, 2011. Geoarchäologidche Untersuchungen der Goldvorkommen von Sotk und Fioletovo, Armenia. *Archäologie in Armenien. Ergebnisse der Kooperationsprojekte 2010 – Ein Vorbericht*. Hrald Meller und Pavel Avetissyan (HRSG.)Dokladi - adakites
50. KARAPETYAN S.G., JRBASHYAN R.T., NAVASARDYAN G.KH. MELIKSETIAN KH.B. MNATSAKANYAN A.KH., SAVOV I., GHUKASYAN R.KH. 2010. Upper Pliocene-Holocene volcanism of Syunik highland (Armenia), *Proceedings of the NAS RA: Earth Sciences V.1*, p. 3-21.
51. MELIKSETIAN KH., E. PERNICKA, (2010), Geochemical characterisation of Armenian Early Bronze Age metal artefacts and their relation to copper ores. in S. Hansen, A. Hauptmann, I. Motzenbacker, E. Pernicka (Hrsg.), *Von Majkop bis Trialeti. Gewinnung und Verbreitung von Metallen und Obsidian in Kaukasien im 4. - 2. Jt. .* p. 41-58
52. MELIKSETIAN KH., E. PERNICKA. Les débuts de la métallurgie en Arménie. 2007, *Les Dossiers d'Archéologie*, Mai-Juin, NO 321. Les Editions Faton, p. 36-37 (in French).
53. MELIKSETIAN KH., E. PERNICKA. R. BADALYAN (2007). Compositions and some considerations on the provenance of Armenian Early Bronze Age copper artefacts. *Proceedings, Selected papers, Second International Conference Archaeometallurgy in Europe 2007*, June 17-21, Aquiliea, Italy, p. 125-134
54. MELIKSETIAN KH., E. PERNICKA, R. BADALYAN, P. AVETISSYAN. Geochemical characterization of Armenian Early Bronze Age copper based artefacts and their relation to copper ores. 2003, In: "Archaeometallurgy in Europe" *Proceedings of International Conference. Milan, Italy 2003. Volume 1.*, p. 597-506.
55. MELIKSETIAN KH., E. PERNICKA, P. AVETISSYAN, H. SIMONYAN, 2003. Chemical and lead isotope characterisation of Middle Bronze age bronzes and some Iron Age antimony objects (Armenia). In: "Archaeometallurgy in Europe" *Proceedings of International Conference. Milan, Italy 2003. Volume 2.*, p. 311-318.

CONFERENCE CONTRIBUTIONS

1. Meliksetian, K., Navasardyan, G., Sargsyan, L., Medvedev, A., Grigoryan, E., LaFemina, P., Connor, C., Lavrushin, V., Sahakyan, E., Savov, I., and Toghramadjian, N.: Assessment of geothermal energy resources and in Armenia, EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-14495, <https://doi.org/10.5194/egusphere-egu23-14495>, 2023.
2. Navasardyan, G., Savov, I., Grigoryan, E., Metaxian, J.-P., Sargsyan, L., Sahakyan, E., Galstyan, A., and Meliksetian, K.: Nature of polygenetic to monogenetic transition of volcanism of Gegham volcanic ridge (Armenia), EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-13580, <https://doi.org/10.5194/egusphere-egu23-13580>, 2023.
3. Grigoryan, E., Meliksetian, K., Gevorgyan, H., Savov, I., Navasardyan, G., Bangoyan, M., and Boyakhchyan, T.: Tephrochronology and geochemical correlation of Middle Pleistocene distal tephra deposits in Armenia, EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-15716, <https://doi.org/10.5194/egusphere-egu23-15716>, 2023.

4. Meliksetian, K., Gevorgyan, H., Savov, I., Connor, C., Connor, L., Halama, R., Jrbashyan, R., Navasardyan, G., Grigoryan, E., and Ishizuka, O.: Plinian eruption of the Middle Pleistocene Irind volcano, Armenia, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-14206, <https://doi.org/10.5194/egusphere-egu21-14206>, 2021.
5. Meliksetian, K., Avagyan, A., Sahakyan, L., Galoyan, G., Melik-Adamyanyan, H., Hovhanissyan, A., Grigoryan, A., Grigoryan, T., Arakelyan, D., Shahinyan, H., Sahakyan, K., Hovakimyan, H., Atalyan, T., Grigoryan, E., Misakyan, M., and Avagyan, S.: Geological Hazards Focused Geopark Proposal, Armenia, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-14287, <https://doi.org/10.5194/egusphere-egu21-14287>, 2021.
6. Meliksetian K, Sargsyan L, Sugden P, Tseng T-L, Savov I, Navasardyan G & Grigoryan E (2019), Spatial geochemical variations of Quaternary collision related volcanism of Armenia linked with seismic data on regional crustal thickness, Goldschmidt Abstracts, 2019 2225.
7. MELIKSETIAN KH., I. SAVOV, C. CONNOR, H. GEVORGYAN, L. CONNOR, G. NAVASARDYAN, D. MANUCHARYAN, R.JRBASHYAN, AND Y. GHUKASYAN. Violent Explosive Eruptions in the Ararat Valley, Armenia and Associated Volcanic Hazards. General Assembly, Austria, Geophysical Research Abstracts, vol. 18, 2016, EGU2016-608
8. KH. MELIKSETIAN, E. PERNICKA, On the origins of Chalcolithic and Kura-Araxes metallurgy of Armenia, International conference, On salt, copper, and gold: the origins of early mining and metallurgy in the Caucasus, International Conference, 16-19 June 2016, Tbilisi, Georgia.
9. KH. MELIKSETIAN, A. KARAKHANYAN, R. BADALYAN, I. NEILL, A. AVAGYAN, A. HARUTYUNYAN, KH. MAKARYAN, S. BALASANYAN, G. NAVASARDYAN, D. MIGGINS, A. KOOPERS. Holocene volcanism and human occupation in Armenia: new data, Ancient Armenia At The Crossroads, International conference, 6-7 Nov. 2018, Lyon, France
10. A. AVAGYAN J.-F. RITZ, P.-H. BLARD, K. MELIKSETIAN, P. MUNCH, P. VALLA, K.S. TOKHATYAN, M. MKRTCHYAN, T. ATALYAN. Volcanic Eruptions Witnessed by Prehistoric Men in Armenia, Ancient Armenia At The Crossroads, International conference, 6-7 Nov. 2018, Lyon, France
11. S. BALASANYAN , A. KARAKHANYAN, KH. MELIKSETIAN. Archaeoseismological studies of the eastern branch of the Syunik pull-apart basin structure. Ancient Armenia At The Crossroads, International conference, 6-7 Nov. 2018, Lyon, France
12. SAVOV I., KH. MELIKSETIAN, C. CONNOR, A. KARAKHANIAN, P. SUGDEN, G. NAVASARDYAN, R. HALAMA, O. ISHIZUKA, L. CONNOR, AND S. KARAPETIAN. Evolution of Pleistocene to Holocene eruptions in the Lesser Caucasus Mts: Insights from geology, petrology, geochemistry and geochronology. EGU General Assembly, Austria, Geophysical Research Abstracts, vol. 18, 2016, EGU2016-6377
13. FAUST D., P. BAUMGART, S. MESZNER, A. FÜLLING, F. HAUBOLD, L. SAHAKYAN, KH. MELIKSETIAN, AND D. WOLF. Loess in Armenia - Stratigraphic findings and palaeoenvironmental indications, EGU General Assembly, Austria, Geophysical Research Abstracts, vol. 18, 2016, EGU2016-9027
14. MELIKSETIAN KH. Prehistoric use of copper ores and the spread of early metallurgy in the southern Caucasus. 40th INHIGEO Symposium, Geosciences International Conference Centre, Beijing, China, 24-27 June 2015
15. MELIKSETIAN KH., NEILL I., ALLEN M., NAVASARDYAN G. Petrogenesis of mafic magmatism in Arabia-Eurasia collision zone: valley filling flows in Armenia. EGU General Assembly. Austria, Geophysical Research Abstracts vol. 17, 2015, EGU2015-4518.
16. MELIKSETIAN KH., CONNOR CH., SAVOV I., CONNOR L., NAVASARDYAN G., MANUCHARYAN D., GHUKASYAN Y., GEVORGYAN H. Conceptual model of volcanism and volcanic hazards of the region of Ararat valley, Armenia. EGU General Assembly. Austria, Geophysical Research Abstracts vol. 17, 2015, EGU2015-11230.
17. GEVORGYAN H., MELIKSETIAN KH., GHUKASYAN YU. G, SAVOV I., KARAPETYAN S., NAVASARDYAN G., Quaternary ignimbrites of Armenia: Petrology and stratigraphy. 26th IUGG General Assembly 2015, Czech Republic, Prague.
18. MELIKSETIAN KH., I. SAVOV, C. CONNOR, R. HALAMA, R. JRASHYAN, G. NAVASARDYAN, Y. GHUKASYAN, H. GEVORGYAN, D. MANUCHARYAN, O. ISHIZUKA, X., A. GERMA. Aragats stratovolcano in Armenia - volcano-stratigraphy and petrology. Geophysical Research Abstracts. Vol. 16, EGU2014-567-2, 2014., European Geological Union General assembly, EGU 2014, Austria Vienna, 27 April – 02 May 2014
19. MELIKSETIAN KH., I. NEILL, M. ALLEN, G. NAVASARDYAN. Plateau basaltic volcanism in a syn-collision setting (South Caucasus). Geophysical Research Abstracts. Vol. 16, EGU2014-6703. European Geological Union General assembly, EGU 2014, Austria Vienna, 27 April – 02 May 2014
20. FRANK S., A. FERK, U. KIRSCHER, R. LEONHARDT, KH. MELIKSETIAN, K-U. HESS, D. DINGWELL, AND V. BACHTADSE Paleointensity study on obsidians of Pleistocene Age from Armenia, EGU2014-15552 European Geological Union General assembly, EGU 2014, Austria Vienna, 27 April – 02 May 2014
21. SAVOV I., KH. MELIKSETIAN, H. RALF, NAVASARDIAN G., CONNOR C., D'ANTONIO M., AGOSTINI S., ISHIZUKA O., KARAPETIAN S., AND KARAKHANIAN A. Collision zone magmatism aids continental crustal growth. EGU2014-2235 European Geological Union General assembly, EGU 2014, Austria Vienna, 27 April – 02 May 2014

22. NIKOGHOSYAN I., KH. MELIKSETIAN, M. VAN BERGEN, P. MASON, R. JRBASHYAN, G. NAVASARDYAN, Y. GHUKASYAN, R. MELKONYAN AND S. KARAPETYAN. Characteristics of mantle sources in Jurassic to Quaternary magmatic history of the territory of Armenia, as a guide to diverse geodynamic settings. Geophysical Research Abstracts. Vol. 16, EGU2014-2262, 2014. European Geological Union General assembly, EGU 2014, Austria Vienna, 27 April – 02 May 2014
23. NEILL I., M. ALLEN, M. KHEIRKHAH, KH. MELIKSETIAN, L. KAISLANIEMI, J.N VAN HUNEN. Four flavours of orogenic plateau magmatism: what's melting beneath the Turkish-Iranian Plateau? Geophysical Research Abstracts. Vol. 16 EGU2014-6400, European Geological Union General assembly, EGU 2014, Austria Vienna, 27 April – 02 May 2014
24. NIKOGOSIAN, I., KH. MELIKSETIAN, M.J VAN BERGEN, P.R.D. MASON AND G. NAVASARDYAN (2013). Magma sources within the Armenian territory since the Jurassic. Goldschmidt 23th conference, 25-30 Aug 2013, Florence, Italy abstracts p. 1850.
25. MELIKSETIAN KH., I. NEILL, M.B. ALLEN, G. NAVARSARDYAN, AND S. KARAPETYAN. Pliocene-Quaternary syn-collision volcanism of the Javakheti Ridge, NW Armenia: impact on models of magma generation in the Arabia-Eurasia collision zone. Geophysical Research Abstracts, Vol. 14, EGU2012-7894, 2012.
26. NEILL I., KH. MELIKSETIAN, M.B. ALLEN, G. NAVARSARDYAN, 2012. Petrogenesis of Syn-collision Plio-Quaternary Lavas in Northwest Armenia: Magma Generation in the Turkish-Armenian-Iranian Plateau AGU Fall Meeting, 3-7 Dec., San-Francisco, USA.
27. FRANK, S., FERK, A., KIRSCHER, U., LEONHARDT, R., MELIKSETIAN, KH., BACHTADSE, V. Paleointensity of subaerial obsidians of Pleistocene age from Armenia. IAGA 12th Scientific Assembly August 26-31, 2013, Yucatan, Mexico.
28. KARAKHANIAN A., BADALYAN R., HAROUTYUNIAN A., AVAGYAN A., MELIKSETYAN KH. People and Faults: Archeoseismological Studies in Armenia. Environments and Societies in the Southern Caucasus during the Holocene. International conference, LIA, Maison de l'Orient, Lyon, France, November 28-29th. 2013.
29. C. CONNOR, L. CONNOR, I. SAVOV, K. MELIKSETIAN, R. HALAMA, 2011. Application Of IAEA Guidelines On Volcanic Hazard To A Nuclear Power Plant Site In Armenia. Proceedings, IUGG 2011, Melbourne, Australia. 28 June- 07 July.
30. L. CONNOR, C.B. CONNOR, K. MELIKSETIAN & I. SAVOV. 2011. A Probabilistic Approach to Modeling Lava Flow Inundation. Proceedings, IUGG 2011, Melbourne, Australia. 28 June- 07 July.
31. R. HALAMA, I. SAVOV & KH. MELIKSETIAN. The Tezhsar alkaline volcano-intrusive complex (Armenia). 2011. Proceedings. Peralk-Carb 2011., 16-18 June, Tuebingen, Germany.
32. KH. MELIKSETIAN, R. SCHWAB, S. KRAUS, E. PERNICKA, M. BRAUNS. 2011. Chemical, lead isotope and metallographic analysis of extraordinary arsenic-rich alloys used for jewellery in Bronze Age Armenia. Metalla. Proceedings, International conference Archaeometallurgy in Europe III. Bochum, Germany p. 211-212.
33. R. KUNZE, D. WOLF, A. BOBOKHYAN, KH. MELIKSETIAN, AND E. PERNICKA. 2011, Archaeometallurgical investigations in gold mining districts of Armenia. Metalla. Proceedings, International conference Archaeometallurgy in Europe III. 29 June- 1 July, 2011. p. 126
34. D. PETERSON., A. GEVORKYAN, KH. MELIKSETIAN, A. BOBOKYAN. J. DUDGEON. M. TROMP. S. HOVAKIMYAN, A. VARDANYAN. C. MEREDITH AND T. SCHNEYDER. 2011. The South Caucasus archaeometallurgy project: investigation of early mining and metal production on the Armenian Plateau. Metalla. Proceedings, International conference Archaeometallurgy in Europe III. 29 June- 1 July, 2011. p. 213
35. MELIKSETIAN, K., PERNICKA, E., BADALYAN, M. BRAUNS, R., AVETISSYAN, P. Trace element compositions and lead isotopy of Armenian Neolithic, Eneolithic and Early Bronze Age metal artefacts and comparison to ore sources. Abstract. 38th International Symposium on Archaeometry Tampa, Florida, USA, May 10th-14th, 2010.
36. MELIKSETIAN, E. PERNICKA. R. BADALYAN T. SCHIFER. Geochemical characteristics of obsidian sources of the South Caucasus and provenance of Middle Palaeolithic to Early Iron Age obsidian artefacts. Abstract. 38th International Symposium on Archaeometry Tampa, Florida, USA, May 10th-14th, 2010.
37. MELIKSETIAN, K., PERNICKA, E., BADALYAN, R., AVETISSYAN, P. - Trace element and lead isotope composition of some Armenian Neolithic and Eneolithic copper objects. Abstract. 37th International Symposium on Archaeometry Siena, May 12th-16th, 2008.

INVITED TALKS

1. MELIKSETIAN KH. Volcanic hazards assessment for nuclear installations, cycle of 4 lectures. 7th Regional Workshop on Blind Faults and Volcano Hazards Relevant to Nuclear Power Plant Site Safety, IAEA – ANSN workshop, Manila, Philippines, 15–19 June 2015.
2. MELIKSETIAN KH. Volcanic Hazard Assessment of the Armenia Nuclear Power Plant Site, Technical Meeting on the Revision of the Safety Requirements Publication: Site Evaluation for Nuclear Installations, IAEA Headquarters, Vienna 3 - 5 December 2012
3. MELIKSETIAN KH. Volcanic Hazards Assessment, American University of Armenia, Yerevan, 14 April, 2016.