

A Case Study on the Spectroscopic Quantification of Mercury Speciation in Geita District: Soil and Hair Matrices from Tanzanian Artisanal Gold Miners

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| Abstract

This study addresses a current research gap in African Studies concerning Spectroscopic quantification of mercury speciation in soil and hair samples from artisanal gold miners in the Geita District of Tanzania in Tanzania. The objective is to clarify key debates, identify practical implications, and outline a focused agenda for scholarship and policy. A qualitative approach was used, drawing on recent literature and policy sources to frame the analysis. The analysis indicates persistent structural constraints alongside emerging local innovations; however, evidence remains uneven across contexts and sectors. The paper argues for context-specific approaches and stronger empirical foundations in future research. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Spectroscopic quantification of mercury speciation in soil and hair samples from artisanal gold miners in the Geita District of Tanzania, Tanzania, Africa, African Studies, case study This structured abstract provides a standardised summary to support rapid screening, indexing, and assessment of scholarly contribution.
