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Geochemical Assessment and Phytoextraction Potential of Gold in Artisanal Mining Soils of the Ashanti Region

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| Abstract

This study addresses a current research gap in Energy concerning Geochemical characterization of soils surrounding gold mining sites in the Ashanti Region for phyto-mining of gold using hyperaccumulator plants in Democratic Republic of Congo. The objective is to clarify key debates, identify practical implications, and outline a focused agenda for scholarship and policy. A mixed-methods design was used, combining survey and interview data collected over the study period. 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. Geochemical characterization of soils surrounding gold mining sites in the Ashanti Region for phyto-mining of gold using hyperaccumulator plants, Democratic Republic of Congo, Africa, Energy, intervention study This structured abstract provides a standardised summary to support rapid screening, indexing, and assessment of scholarly contribution.
