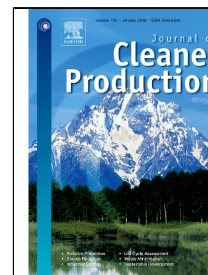


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Coal waste derived soil-like substrate: an opportunity for coal waste in a sustainable mineral scenario.

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Highlights

Coal waste combined with amendments was transformed into a soil-like substrate (SLS).

The amendments were steel slag, sewage sludge, and rice husk ash.

Guinea grass was successfully cultivated in the SLS.

Sulfur was incorporated in the soil nutrient cycle while pyrite oxidation occurred.

Proper coal waste management significantly reduces environmental impacts.

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