



## Cleaner Production in Mineral Processing

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### Message from the Guest Editor

Dear Colleagues,

The most pressing environmental problems of base metals production are solid waste production, gaseous emissions, and high energy use. Most of the present solutions to clean up post-mining base metals production can be characterized as incremental, end-of-pipe technologies. More sophisticated, radical solutions are scarcely implemented. This Special Issue on Cleaner Production in Mineral Processing focuses on strategies and technologies to identify options to minimize waste and emissions out of the mineral processes through source reduction. Examples are technologies to reduce the effect of tailing by modification of the process to avoid fine particles and acid mine drainage agents in the tailing. Other examples are the reuse of waste, new process and technologies with low waste, and substitution of raw material and energy by renewable material and energy. The development of cleaner production is essential for the adoption of a circular economy.

Prof. Dr. Luis A. Cisternas

*Guest Editor*





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## Message from the Editor-in-Chief

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