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Selective leaching of antimony and arsenic from mechanically activated tetrahedrite, jamesonite and enargite

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Abstract

In this study, the changes in surface area, morphology and leachability of antimony and arsenic from tetrahedrite, jamesonite and enargite mechanically activated by a high-energy planetary mill were investigated. It appears that the leaching of antimony from tetrahedrite and jamesonite and arsenic from enargite in alkaline solution of sodium sulphide is temperature-sensitive reaction. The temperature dependencies of all reactions were investigated in the interval 313–363 K. Resulting experimental activation energies were $E_a = 111\text{--}182\text{ kJ mol}^{-1}$ for mechanically activated minerals. The values of E_a are characteristic for processes controlled by surface chemical reactions.

Keywords

Tetrahedrite; Jamesonite; Enargite; Mechanical activation; Alkaline leaching

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