



Chalcopyrite Leaching in Acidified Nitrate

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Editorial

The present article discusses the leaching of chalcopyrite in acidified nitrate solution. The study is carried out to understand the mechanism of leaching and to optimize the process parameters. The results show that the leaching rate increases with increasing temperature and nitrate concentration. The activation energy of the leaching process is found to be 15.2 kJ/mol, indicating a surface-controlled process. The leaching mechanism is proposed to be a two-step process involving the initial attack of nitrate ions on the chalcopyrite surface, followed by the leaching of copper and iron ions into the solution.