

Effect of Ozone Addition for Copper Leaching from Chalcopyrite

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This paper was studied on the leaching kinetics of recovering copper in ferric chloride oxidant with hydrochloric acid from the chalcopyrite(CuFeS<sub>2</sub>). CuFeS<sub>2</sub> included in the chalcopyrite ore was converted into cupric chloride(CuCl<sub>2</sub>) to the scale of 90% after the leaching of 4 h, 90°C under the input of ozone. As the result of leaching experiment, the leaching mechanism was determined as different models based on the shrinking core model with spherical particles according to input of ozone or not.