

Metallurgist

Volume 62, Issue 1-2, 1 May 2018, Pages 29-33

Complex Loosening of Lepidolite Concentrate by Sulfuric Acid(Article)

Samoilov, V.I.Email Author, Onalbaeva, Z.S.Email Author, Adykanova, M.A., Kokaeva, G.A., Abdulina, S.A. [View Correspondence \(jump link\)](#)

Serikbayev East Kazakhstan State Technical University, Ust-Kamenogorsk, Kazakhstan

Краткое описание

Experimental study of complex extraction of lithium and other valuable components from lithia mica – lepidolite was carried out. A method of complex processing of lepidolite is suggested in the present work, that provides extraction of such valuable components as lithium, potassium, cesium, rubidium, aluminum, and beryllium from this mineral. Moreover, energy consumption was minimal during this process. Results of the research set up preconditions for large-scale involvement of lepidolite in the hydrometallurgy of lithium, given the large number of proven deposits of lepidolite and the ever-growing demand for lithium products in different countries. © 2018, Springer Science+Business Media, LLC, part of Springer Nature.