

Production and investigation of properties of sulfide composite materials based on technogenic sulfur waste with titanium chloride as an activator

Yusupova A., Akhmetova R., Treshchev A., Erofeev V., Bobrishev A., Shafigullin L., Lakhno A.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

The modification with titanium chloride contributes to the increase in active sites of silica-containing compounds and opening of sulfur rings. As an activator, titanium chloride helps to make resistant and durable high-performance sulfur composite materials.

Keywords

Opal-crystobalite rock, Quantum chemical calculations, Sulfides, Sulfur composite materials, Titanium chloride