

Construction of models that are formed in the synthesis of sulfide-based composite materials on the basis of modified silica

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Abstract

Using the program *Priroda (basis 4)* models which are formed in the synthesis of sulfide-based composite materials of silica modified by iron chloride are constructed. It is shown that the iron chloride promotes to the destabilization of sulfuric cycles and activates their break. As a result polymeric sulfur chains are being formed which are more reactive in comparison to the stable cyclic sulfur molecules at normal conditions. A study of binding ability of sulfur in silica gel clusters is conducted.