

## **Abstract**

Bachelor thesis discusses briefly the nature and chemical composition of coal, summarizes detailed knowledge about the forms and origin of sulfur in caustobiolith. It outlines the methods of determining the content of this element in coal caustobiolith series and mentions the legislation dealing with the sulfur content in fuels. Detail is devoted to an overview of the most important coal mining areas of the Czech Republic with an emphasis on coal basin, which are of significant environmental burdens than coal basin. All it will report on the sulfur content measured in each of their major uhlonosných horizons.

The importance of monitoring sulphur in caustobioliths results from the environmental hazard both in areas of intensive mining, which is mostly applied more factors having an impact on landscaping, and in areas where there is use of fossil fuels for heating and energy. In doing so leads to the release of sulphur compounds and their redistribution in the environment and thus to increase the influence of sulphur on biological processes.

## **Keywords**

Sulphur; Coal; Environment