

Carbonatites from Badou pipe, Shandong, China; Difference of geochemical characteristics accompanied with lithofacies

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At Shandong province, China, carbonatites distribute north and south part around the kimberlite pipes. In Badou, carbonatite occurs as breccia pipe, located in the Zibo area, northern part of the carbonatite area.

The carbonatite from Badou pipe has many inclusions and mica megacrysts. The types and abundances of inclusions are different between margin and center of the pipe. In addition, the results of geochemical analysis of the whole rocks point out some differences.

In this study, it counted the mode of inclusions and micas, and tried to find out any kinds of correlation between the mode and the contents of some elements. As a result, it is clear that geochemical compositions are influenced from type of inclusions and content of micas to some extent.