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The methods of petrochemical and geochemical research of plutonic rocks based on the example of the pre-Alpine granitoids and quartz diorites of the Loki crystalline massif

Today, in the context of rapid scientific progress, numerous methods are available for studying the composition of rocks, including petrochemical and geochemical research methods. Petrochemical and geochemical research methods combine the analytical study of rocks using various methods and tools. This includes determining the constituent components expressed in the form of oxides, general chemical characteristics, and their average composition, selecting recalculation methods, as well as plotting the chemical composition data of the rocks on various diagrams (variational, graphic, scatter, triangular, etc.). Different diagrams have different significance for the petrological analysis of rocks. However, all methods share one main goal — to achieve better correlation and interpretation of the chemical composition of rocks, compared to what is possible by using only the numerical data obtained from the analysis. The presented paper proposes a petrochemical and geochemical study based on the example of the pre-Alpine quartz diorites and granitoids of the Loki crystalline massif.