



## Analysis of Geological Samples by Spectrochemical Techniques

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### Message from the Guest Editor

Nowadays, spectroscopy is the main tool to obtain new data on elemental, isotopic, and mineralogic composition of rocks, soils, sediments. Most developed spectroscopic techniques are used in this research—X-ray fluorescence, atomic emission and mass spectrometry with inductively coupled plasma, Isotope Dilution MS, Laser Ablation followed by emission spectroscopy of the ignited laser plasma, hyphenated LA-ICP-MS technique. Some techniques can be used for direct analysis of solid samples. Direct analysis is of course the most preferable technique for avoiding the stage of a solid sample digestion. But extremely low concentrations of noble metals and REEs cannot be determined directly because of the inadequate sensitivity of the direct techniques. LA-ICP-MS is the powerful technique for the analysis of the element inclusions in the minerals. For determination of trace and clark concentrations of NMs and REEs the most sensitive technique—ICP-MS- with the preliminary sample digestion and in some cases preconcentration is most commonly used.

We hope that researchers shall find this volume a valuable editorial tool for the publication of their results.





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## Message from the Editor-in-Chief

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