

Raman imaging for geological applications: More than a nice picture

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Raman spectroscopy is an important analytical tool to study geological materials. This technique is a rapid and reliable way to confirm the chemical composition of samples as well as the particle distribution. Raman imaging is particularly useful to study heterogeneous samples in various fields of application of Earth Science: mineralogy, gemmology, petrology, geoarcheology, paleontology, planetology or volcanology. Beyond the nice pictures, Raman images contain rich chemical and structural information. This presentation has an educational aim to show how to adapt the parameters of Raman imaging to various applications and type of analysis in the geoscience domain). The latest developments in Raman imaging will be also presented.

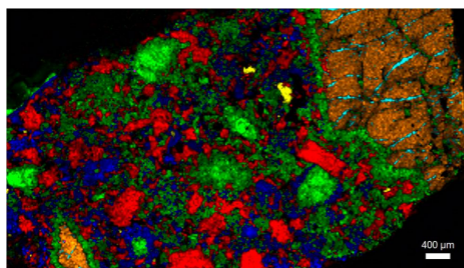


Figure 1: a meteorite and its components distribution