

On the use of in-situ non-invasive spectroscopic techniques to unveil ancient artistic materials

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Heritage science has one of its most interesting fields of research on the analysis of colour materials of what ancient Artworks are made of. In the last few years, special attention has been given to in-situ non-invasive approaches, such as the use of mapping elemental analysis (MA-XRF) and molecular analytical techniques (UV-Vis-NIR-FORS and hyperspectral imaging analysis).

In this work, the use of these approaches at HERCULES Lab will be presented, highlighted with some case studies involving the analysis of ancient artworks, such as the analysis of ancient Ivory or the characterization of pigments and dyes in medieval and renaissance illuminated manuscripts.

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