

Special Issue

Applications of Raman Spectroscopy and X-Ray in Archaeological Research

Message from the Guest Editors

This Special Issue aims to address the challenges of a multidisciplinary approach in archaeological studies. Among the non-invasive methods, Raman spectroscopy and X-ray techniques stand out for their capacity to analyze artifacts' material compositions without damaging them. Raman spectroscopy and X-ray techniques, such as X-ray fluorescence (XRF) and X-ray diffraction (XRD), are two powerful tools that provide valuable insights into knowledge of the composition and structure of materials involved in archaeological objects. These methods offer non-destructive ways of monitoring the condition of objects, assessing the degradation of materials over time, and distinguishing between original components and modern restorations. Your contribution could explore the applications of these techniques in archaeology, emphasizing their ability to identify pigments, ceramics, metals, and organic materials, while preserving the integrity of the artifacts. The presentation of case studies will highlight their role in uncovering technological processes, trade routes, and conservation efforts.

Guest Editors

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Message from the Editorial Board

Heritage is an international, peer-reviewed, open access journal that focuses on knowledge, conservation, interpretation and management of cultural and natural heritage, by presenting and enabling novelty and advances in sensing technologies, novel methods, best practices and policies. *Heritage* has the ambition to become a “cultural forum”, where scientists and experts offer answers to significant issues affecting cultural and natural heritage, by creating a knowledge bridge between different technological and social disciplines. *Heritage* has an Editorial Board of eminent international leaders and this ensures rigorous peer-review processing for high quality and novel papers. We strongly recommend *Heritage* for the rapid and professional publication of your innovative research and case studies.

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