

Special Issue

The Future of Analytical Chemistry and Material Science for Cultural Heritage

Message from the Guest Editor

The future of analytical chemistry and material science in cultural heritage relies on precise, non-destructive, and interdisciplinary methods. Advanced spectroscopy, chromatography, mass spectrometry, imaging, and new portable instruments allow detailed, in situ characterization of pigments, binders, metals, ceramics, and organic residues with minimal risk to artifacts. Material science deepens this by examining aging, structural weaknesses, and environmental sensitivity, supporting improved conservation treatments, including nanomaterials, compatible polymers, and reversible protective coatings. Digital tools—AI, machine learning, and big data—will help interpret complex datasets, predict degradation, and share results globally. Integrating AI, big data, and portable devices will enable fast diagnostics and predictive models, while collaboration among chemists, conservators, archaeologists, and technologists will enhance preservation strategies for future generations.

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About the Journal

Message from the Editor-in-Chief

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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