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Photon-Based Techniques for the Examination of Cultural Heritage Artifacts

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Message from the Guest Editors

Photon-based technologies are opening new horizons for cultural heritage examination, comprehension, and conservation. By exploiting light-matter interaction phenomena and using photons of different frequencies, ranging from X-rays, through ultraviolet, visible, and infrared, up to the millimeter and radiowave regions of the electromagnetic spectrum, broadband or coherent devices can provide diverse and complementary information about the object under investigation. Their spectroscopic, imaging, or depth profiling capabilities offer invaluable contributions within the art history, archaeology, and conservation-restoration fields.

This Special Issue titled “Photon-based Techniques for the Examination of Cultural Heritage Artifacts” aims to bring together, in a single volume, research relating to the most recent advances in optical techniques for the analysis of cultural heritage objects, to highlight their state of the art and their impact in the cultural heritage sector.