



# Scientific Methods and Cultural Heritage: An introduction to the application of materials science to archaeometry and conservation science

By Gilberto Artioli

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By Gilberto Artioli

Scientific techniques developed in materials science offer invaluable information to archaeology, art history, and conservation. A rapidly growing number of innovative methods, as well as many established techniques, are constantly being improved and optimized for the analysis of cultural heritage materials. The result is that on the one hand more complex problems and questions can be confronted, but on the other hand the required level of technical competence is widening the existing cultural gap between scientists and end users, such as archaeologists, museum curators, art historians, and many managers of cultural heritage who have a purely humanistic background.

The book is intended as an entry-level introduction to the methods and rationales of scientific investigation of cultural heritage materials, with emphasis placed on the analytical strategies, modes of operation, and resulting information rather than on technicalities. The extensive and updated reference list should be a useful starting point for further reading. Students and researchers from the humanities approaching scientific investigations should find it useful, as well as scientists applying familiar techniques and methods to unfamiliar problems related to cultural heritage.

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*By Gilberto Artioli*

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"The author has clear ideas about how to do research in this field, ... easy to read and gives useful information to non-specialised people. --Ignacio Montero, Instituto de Historia, CCHS-CSIC, Spain

"The scientific level the subjects are presented is high enough to be useful for the majority of students and graduates interested in acquiring a better general view of methods applicable to different materials and objectives, furnishing the theoretical principles the methods are based on and the application fields." --Salvatore Rovira, National Archaeological Museum, Madrid

#### **About the Author**

**Gilberto G. Artioli** is Director of the CIRCe Center for the Study of Cement Materials, and Professor of Mineralogy and Crystallography at the University of Padova, Italy.

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