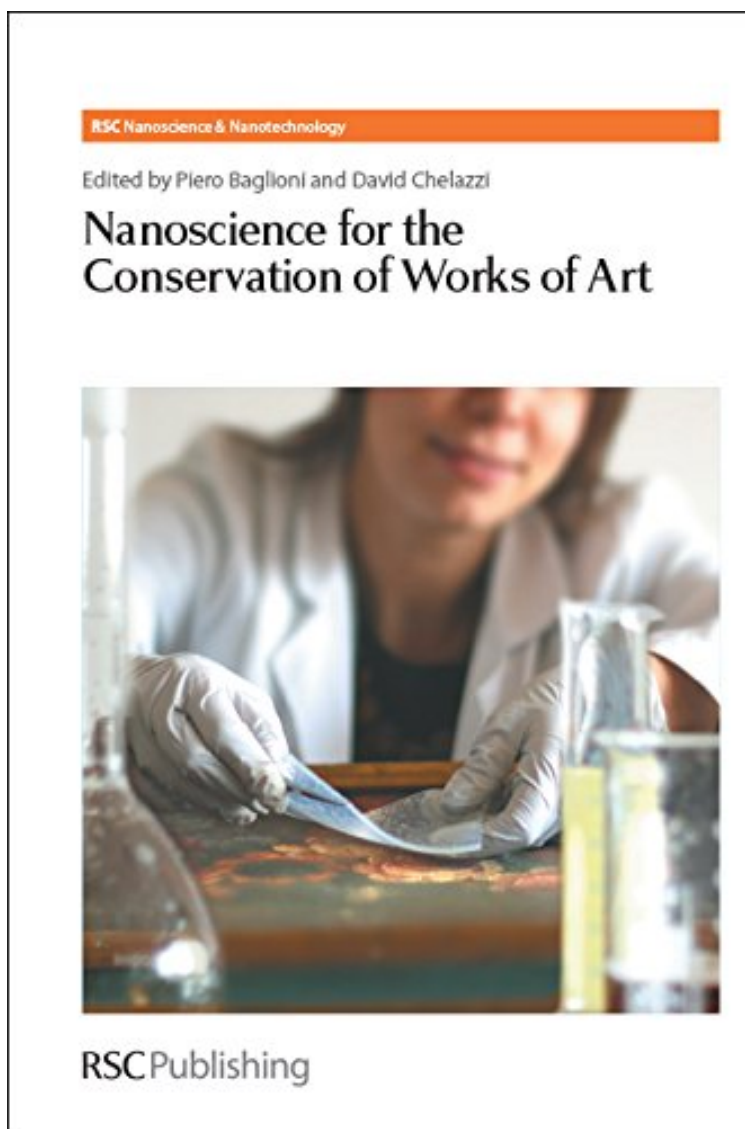


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Nanoscience for the Conservation of Works of Art: RSC (Nanoscience Nanotechnology Series)

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Understanding the chemistry behind works of art and heritage materials presents an opportunity to apply scientific techniques to their conservation and restoration. Manipulation of materials at the nanoscale affords greater accuracy and minimal disturbance to the original work, while efficiently combating the affects of time and environment. This book meets the growing demand for an all-encompassing handbook to instruct on the use of today's science on mankind's cultural heritage. The editors have pioneered modern techniques in art conservation over the last four decades, and have brought together expertise from across the globe. Each chapter presents the theoretical background to the topic in question, followed by practical information on its application and relevant case studies. Introductory chapters present the science behind the physical composition of art materials. Four chapters explore various cleaning techniques now, followed by four chapters describing the application of inorganic nanomaterials. Each chapter is fully referenced to the primary literature and offers suggestions for further reading. Professional conservators and scientists alike will find this essential reading, as will postgraduate students in the fields of materials and colloid science, art restoration and nanoscience.

From the Back Cover Understanding the chemistry behind works of art and heritage materials presents an opportunity to apply scientific techniques to their conservation and restoration. Manipulation of materials at the nanoscale affords greater accuracy and minimal disturbance to the original work, while efficiently combating the affects of time and environment. This book meets the growing demand for an all-encompassing handbook to instruct on the use of today's science on mankind's cultural heritage. The editors have pioneered modern techniques in art conservation over the last four decades, and have brought together expertise from across the globe. Each chapter presents the theoretical background to the topic in question, followed by practical information on its application and relevant case studies. Introductory chapters present the science behind the physical composition of art materials. Four chapters explore various cleaning techniques now, followed by four chapters describing the application of inorganic nanomaterials. Each chapter is fully referenced to the primary literature and offers suggestions for further reading. Professional conservators and scientists alike will find this essential reading, as will postgraduate students in the fields of materials and colloid science, art restoration and nanoscience.

About the Author Piero Baglioni is currently Full Professor of Physical Chemistry and lecturer of Physical Chemistry of Disperse Systems and Interfaces at the Department of Chemistry of the University of Florence. He has been appointed as Visiting Scientist/Professor by several laboratories such as the Department of Chemistry of the University of Houston, the Weizmann Institute, the Collge de France, and M.I.T. He is the Director of the National Consortium for Nanosystems (CSGI) and in the Advisory Board and reviewer of several international journals and International organization (European Science Foundation (ESF), National Science Foundation (NSF)). He is member of the scientific board of several national and international Institutions, industries (Italcementi, FAST, HMI, etc.) and Journals, coordinator of several National and European Unions projects.

David Chelazzi is a research fellow at the Department of Chemistry of the University of Florence. His research interests and expertise include the consolidation of wall painting, cleaning of artworks, deacidification of paper, wood and canvas. Recent work has been concerned with the synthesis and characterisation of nanoparticles for cultural heritage conservation and nanostructured cleaning fluids.