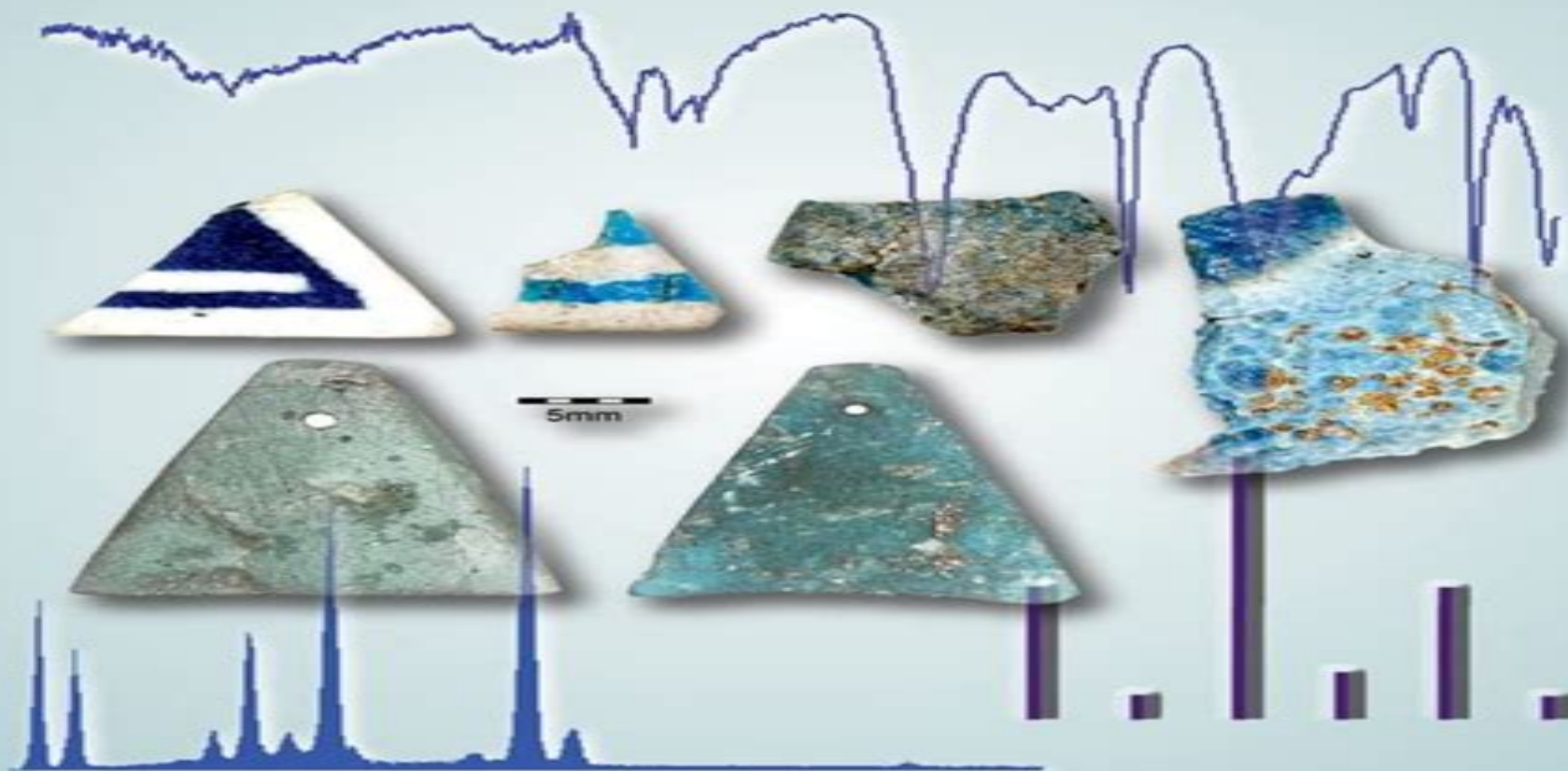


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Archaeological Chemistry VIII



EDITED BY
Ruth Ann Armitage and James H. Burton

Archaeological Chemistry Viii Acs Symposium Series

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Archaeological Chemistry VIII Acs Symposium Series:

Archaeological Chemistry A Mark Pollard, Carl Heron, Ruth Ann Armitage, 2020-08-28 The use of chemistry in archaeology can help archaeologists answer questions about the nature and origin of the many organic and inorganic finds recovered through excavation providing valuable information about the social history of humankind This textbook tackles the fundamental issues in chemical studies of archaeological materials Examining the most widely used analytical techniques in archaeology the third edition of this comprehensive textbook features a new chapter on proteomics capturing significant developments in protein recognition for dating and characterisation The textbook has been updated to encompass the latest developments in the field The textbook explores several archaeological investigations in which chemistry has been employed in tracing the origins of or in studying artefacts and includes chapters on obsidian ceramics glass metals and resins It is an essential companion to students in archaeological science and chemistry as well as to archaeologists and those involved in conserving human artefacts

Archaeological Chemistry Mary Virginia Orna, Seth C. Rasmussen, 2020-11-24 Highlighting its broad multidisciplinary nature this volume presents new research and applications in the field of archaeological chemistry which focuses on the application of chemical techniques to the study of the material remains of the cultures of historical or prehistorical peoples Consisting of 18 chapters written by a diverse collection of international authors this volume highlights new research in archaeological chemistry and shows how the field combines aspects of analytical chemistry history archaeology and materials science Current efforts to include archaeological chemistry in science education are also presented As this book utilizes current scientific advances to better understand our past it will be of broad general interest to the chemical archaeological and historical communities

Ancient Textile Production from an Interdisciplinary Perspective Agata Ulanowska, Karina Grömer, Ina Vanden Berghe, Magdalena Öhrman, 2022-04-29 The diverse developments in textile research of the last decade along with the increased recognition of the importance of textile studies in adjacent fields now merit a dedicated full length publication entitled Ancient Textile Production from an Interdisciplinary Perspective Humanities and Natural Sciences Interwoven for our Understanding of Textiles With this volume the authors and the editors wish to illustrate to the current impact of textile archaeology on the scholarly perception of the past not limited to archaeology alone The volume presents new insights into the consumption meaning use and re use of textiles and dyes all of which are topics of growing importance in textile research As indicated by the title we demonstrate the continued importance of interdisciplinarity by showcasing several interwoven approaches to environmental and archaeological remains textual and iconographic sources archaeological experiments and ethnographic data from a large area covering Europe and the Mediterranean Near East Africa and Asia The chronological span is deliberately wide including materials dating from c 6th millennium BCE to c mid 14th century CE The volume is organised in four parts that aim to reflect the main areas of the textile research in 2020 After the two introductory chapters Part I About this Volume and Textile Research in 2020 follow two

chapters referring to dyes and dyeing technology in which analytical and material based studies are linked to contextual sources Part II Interdisciplinarity of Colour Dye Analyses and Dyeing Technologies The six chapters of Part III Interdisciplinary Approaches to Textile Tools discuss textiles and textile production starting from the analyses of tools whether functional or as representative of technological developments or user identity Archaeological and cultural contexts as well as textile traditions are the main topics of the six chapters in Part IV Traditions and Contexts Fibres Fabrics Techniques Uses and Meanings The two final chapters in Part V Digital Tools refer to the use of digital tools in textile research presenting two different case studies Apalachicola Valley Archaeology, Volume 1 Nancy Marie

White, 2024-02-20 Apalachicola Valley Archaeology is a major holistic synthesis of the archaeological record and what is known or speculated about the ancient Apalachicola and lower Chattahoochee Valley region of northwest Florida southeast Alabama and southwest Georgia Volume 1 coverage spans from the time of the first human settlement around 14 000 years ago to the Middle Woodland period ending about AD 700 Author Nancy Marie White had devoted her career to this archaeologically neglected region and she notes that it is environmentally and culturally different from better known regions nearby Early chapters relate the individual ecosystems and the types of typical and unusual material culture including stone ceramic bone shell soils and plants Other chapters are devoted to the archaeological Paleoindian Archaic Woodland periods Topics include migration settlement sites artifacts and material culture subsistence and lifeways culture and society economics warfare and rituals White s prodigious work reveals that Paleoindian habitation was more extensive than once assumed Archaic sites were widespread and those societies persisted through the first global warming when the Ice Age ended Besides new stone technologies pottery appeared in the Late Archaic period Extensive inland and coastal settlement is documented Development of elaborate religious or ritual systems is suggested by Early Woodland times when the first burial mounds appear Succeeding Middle Woodland societies expanded this mortuary ceremony in about forty mounds In the Middle Woodland the complex pottery of the concurrent Swift Creek and the early Weeden Island ceramic series as well as the imported exotic objects show an increased fascination with the ornate and unusual Native American lifeways continued with gathering fishing hunting subsistence systems similar to those of their ancestors The usefulness of the information to modern society to understand human impacts on environments and vice versa caps the volume **Multidisciplinary**

Approaches for the Investigation of Textiles and Fibres in the Archaeological Field Francesca Coletti, Christina Margariti, Vanessa Forte, Stella Spantidaki, 2024-11-15 This book is dedicated to the analytical methods and approaches applied to ancient textiles and fibres It offers an overview of textile archaeology as an archaeological discipline presenting its history and developments up to state of the art approaches in the study of textiles fibres It demonstrates how various fields of research have contributed to the development and growth of the discipline It establishes that fibre identification is a key element in ancient textile studies showing its importance in understanding a large variety of economic and social aspects of

human societies However fibre identification in archaeological textiles is not a straightforward task mainly due to the vast variety of fibres people used in antiquity to make textiles and the more often than not poor condition of preservation of excavated textiles Currently comprehensive studies on more traditional fibre identification techniques such as Scanning Electron and Optical microscopy spectroscopic techniques e g Fourier Transform Infrared spectroscopy FTIR Raman and recent advances in DNA and paleoproteomics along with experiments on artificial ageing and deterioration of textiles constitute a promising path down the exploration and analysis of archaeological textiles This book shows how these techniques have advanced the discipline of textile archaeology and contributed to our understanding of the past This volume brings together scholars investigating fibres in a holistic way by the incorporation of a variety of methods in order to improve the current methodological approaches in the study and conservation of textiles and related material Chapter 6 is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com)

Gulf Conference on Sustainable Built Environment Ali Bumajdad, Walid Bouhamra, Osamah A. Alsayegh, Hasan A. Kamal, Salem Falah Alhajraf, 2020-04-07 This volume brings together outstanding contributions to the Gulf Conference on Sustainable Built Environment held at the Marina Hotel Kuwait near Kuwait City The Proceedings collects 29 papers on a range of engineering and materials challenges and best practices addressing development of new sustainable building materials performance improvement of structures and tall buildings developing monitoring and analysis techniques and frameworks for existing infrastructure under environmental effects development of long term sustainability plans for building stock and development of energy efficient buildings in the gulf region The Conference was organized by the Kuwait Foundation for the Advancement of Sciences KFAS the Massachusetts Institute of Technology the Kuwait Institute for Scientific Research and Kuwait University

Late Antique Textiles from the Papyrus Collection of the Austrian National Library Regina Hofmann-de Keijzer, Maarten R. Bommel, Ineke Joosten, Ines Bogensperger, 2024-09-02 MPER XXXIV 2 presents knowledge of textile dyeing in Late Antique Egypt ca 300 800 CE based on interdisciplinary research on 30 Late Antique textiles from the Papyrus Collection of the Austrian National Library combining scientific analyses with the study of ancient and scholarly literature The general part deals with the dyeing materials and techniques that were available in Late Antique Egypt to create a wide variety of colours The catalogue part contains the scientific analyses of 85 samples of 30 Late Antique textiles from this collection The results of dye fibre and mordant analyses are documented with UHPLC chromatograms UV VIS absorption spectra SEM EDX spectra microscopic images and tables Textiles in which specific dyeing materials have been identified are listed in the appendices including textiles from the Papyrus Collection of the Austrian National Library as well as archaeological textiles from numerous international projects A detailed bibliography completes this volume MPER XXXIV 1 the first comprehensive compilation of Late Antique textiles from the Papyrus collection of the Austrian Library provides an overall study of these 30 textiles and 208 more including iconography and the analyses of the weaving techniques MPER

XXXIV 1 and 2 can also be purchased as a set *The Welsh and the Medieval World* Patricia Skinner, 2018-02-07 Entry point into Welsh migration by experts many of the contributors have longer studies that students can then read Multi disciplinary shows how historical and literary sources can be read together includes new archaeological data Showcases new work by a new generation of Welsh historians *Advances in Portable X-ray Fluorescence Spectrometry* B Lee Drake, Brandi L MacDonald, 2022-10-19 Over the last two decades advances in the design miniaturization and analytical capabilities of portable X ray fluorescence pXRF instrumentation have led to its rapid and widespread adoption in a remarkably diverse range of applications in research and industrial fields The impetus for this volume was that as pXRF continues to grow into mainstream use analysts should be increasingly empowered with the right information to safely and effectively employ pXRF as part of their analytical toolkit This volume provides introductory and advanced level users alike with readings on topics ranging from basic principles of pXRF and qualitative and quantitative approaches through to machine learning and artificial intelligence for enhanced applications It also includes fundamental guidance on calibrations the mathematics of calculating uncertainties and an extensive reference index of all elements and their interactions with X rays Contributing authors have provided a wealth of information and case studies in industry specific chapters These sections delve into detail on current standard practices in industry and research including examples from agricultural and geo exploration sectors research in art and archaeology and metals industrial and regulatory applications As pXRF continues to grow in use in industrial and academic settings it is essential that practitioners continue to learn share and implement informed and effective use of this technique This volume serves as an accessible guidebook and go to reference manual for new and experienced users in pXRF to achieve this goal Archaeological Chemistry VIII Ruth Ann Armitage, James Hutson Burton, 2013 The 12th Archaeological Chemistry Symposium was held as part of the Spring ACS National Meeting in New Orleans Louisiana April 7 11 2013 This volume is a compilation of presentations from the Symposium the latest in a long tradition that began at the ACS National Meeting in Philadelphia in 1950 The papers herein show that archaeological chemistry today is more than the usual studies of trace elements in pottery and lithics which continue to contribute to our understanding of human behavior in the past New areas of research include more focus on portability to analyze pigments in situ and artifacts in museums nascent developments in non and minimally destructive chemical characterization new applications of isotopic analyses and an increasing interest in archaeological biomolecules This volume is divided into sections that roughly follow those of the Symposium Pigments Residues and Material Analysis X Ray Fluorescence Spectroscopy and Isotopes in Archaeology The first section Pigments and Dyes begins with a review of manuscript pigments by Dr Mary Virginia Orna the organizer of the 9th Archaeological Chemistry Symposium and Editor of Archaeological Chemistry Organic Inorganic and Biochemical Analysis 2 Each of the following sections begins with a review paper from one of the invited speakers Dr Valerie Steele now at the University of Bradford in the Department of Archaeological Science provides an overview of the state for better and for

worse of analyses of archaeological residues Portable X ray fluorescence instruments are becoming extremely common in archaeological chemistry investigations Dr Aaron Shugar of Buffalo State University provides in his chapter some perspectives and warnings against the indiscriminate use of this technology Finally Dr Matthew Sponheimer gives an overview of the contributions of stable carbon isotope and trace metal studies in understanding early hominin diets The final chapter of the book provides a perspective on the earliest work in archaeological chemistry in the 18th century and brings us up to today s challenges

Scientific Methods and Cultural Heritage Gilberto Artioli,2010-07-08 The scientific analysis of cultural heritage materials poses specific and often difficult analytical challenges This book attempts to rationalize the links between the most commonly asked questions in archaeology art history and conservation with the potential answers resulting from the vast array of scientific techniques presently available

Manure Matters Richard Jones,2016-05-13 In pre industrial societies in which the majority of the population lived directly off the land few issues were more important than the maintenance of soil fertility Without access to biodegradable wastes from production processes or to synthetic agrochemicals early farmers continuously developed strategies aimed at adding nutritional value to their fields using locally available natural materials Manure really mattered its collection creation storage and spreading becoming major preoccupations for all agriculturalists no matter what environment they worked or at what period This book brings together the work of a group of international scholars working on social cultural and economic issues relating to past manure and manuring Contributors use textual linguistic archaeological scientific and ethnographic evidence as the basis for their analyses The scope of the papers is temporally and geographically broad they span the Neolithic through to the modern period and cover studies from the Middle East Britain and Atlantic Europe and India Together they allow us to explore the signatures that manure and manuring have left behind and the vast range of attitudes that have surrounded both substance and activity in the past and present

HISTORIES OF MAIZE John Staller,Robert Tykot,Bruce Benz,2006-05-15 Histories of Maize is the most comprehensive reference source on the botanical genetic archaeological and anthropological aspects of ancient maize published to date

Chemical Principles of Textile Conservation Agnes Timar-Balazsy,Dinah Eastop,2012-09-10 Chemical Principles of Textile Conservation provides must have knowledge for conservators who do not always have a scientific background This vital book brings together from many sources the material science necessary to understand the properties deterioration and investigation of textile artefacts It also aids understanding of the chemical processes during various treatments such as cleaning humidification drying disinfestation disinfection and the use of adhesives and consolidants in conservation of historical textiles Textile conservators will now have ready access to the necessary knowledge to understand the chemistry of the objects they are asked to treat and to make informed decisions about how to preserve textiles The combination of a chemist and a conservator provides the perfect authorial team It ensures a unique dual function of the text which provides textile conservators with vital chemical knowledge and gives scientists an understanding of textile

conservation necessary to direct their research The many practical examples and case studies illustrate the utility of the relatively large chemical introduction and the essential chemical information which is included The case studies many illustrated in colour range from the treatment of the Ghandis clothes high altitude flying suits and a Mary Quant raincoat to the Hungarian Coronation Mantle Monographic Series Library of Congress,1982 **Igniting The Chemical Ring Of Fire: Historical Evolution Of The Chemical Communities Of The Pacific Rim** Seth C Rasmussen,2018-01-18 From the rise of chemical technology in antiquity to the present day Igniting the Chemical Ring of Fire tracks the development of professional chemistry communities in the countries of the Pacific Rim Critical in this process was the development of local education and training in chemistry The doctorate in chemistry is generally regarded as coming into existence in early 19th century Germany with the model spreading globally as time passed In early years it was common for international chemistry scholars to train at the ranking German or English universities before returning to their home countries to seed a local version of the doctorate However little has been formally written about this process outside of Europe Representing a first in the field for countries of the Pacific Rim this book documents the detailed history of chemical communities in ten countries from a team of internationally renowned historians Providing insights into how and when these countries initiated local chemistry PhD programs and became independent chemical entities Igniting the Chemical Ring of Fire shows that there is no single path to development **The Elemental Analysis of Glass Beads** Laure Dussubieux,Heather Walder,2022-10-03 Glass beads both beautiful and portable have been produced and traded globally for thousands of years Modern archaeologists study these artifacts through sophisticated methods that analyze the glass composition a process which can be utilized to trace bead usage through time and across regions This book publishes open access compositional data obtained from laser ablation inductively coupled plasma mass spectrometry from a single analytical laboratory providing a uniquely comparative data set The geographic range includes studies of beads produced in Europe and traded widely across North America and beads from South and Southeast Asia traded around the Indian Ocean and beyond The contributors provide new insight on the timing of interregional interactions technologies of bead production and patterns of trade and exchange using glass beads as a window to the past This volume will be a key reference for glass researchers archaeologists and any scholars interested in material culture and exchange it provides a wide range of case studies in the investigation and interpretation of glass bead composition production and exchange since ancient times **Histories of Maize in Mesoamerica** John Staller,Robert Tykot,Bruce Benz,2016-06-16 Abridged and updated version of the basic work on the development of maize including 20 chapters of interest to Mesoamerican specialists updated with recent findings and interpretations **Laser Ablation-ICP-MS in Archaeological Research** Robert J. Speakman,Hector Neff,2005-06 This volume brings together for the first time a collection of papers that specifically describe laser ablation methods for data quantification and applications to archaeological questions The Gordion Wooden Objects, Volume 1 The Furniture from Tumulus MM (2-vol. set)

Elizabeth Simpson, 2010-12-15 The Furniture from Tumulus MM The Gordion Wooden Objects volume 1 is a study of the furniture from the largest tomb at Gordion Turkey excavated in 1957 by the University of Pennsylvania Museum The tomb dates to the eighth century BC and is thought to be the burial of the great Phrygian king Midas or his father The objects initially misunderstood are now identified as nine tables two serving stands two stools a chair and an open log coffin Three pieces are ornately carved and inlaid with religious symbols and complex geometric motifs The wooden objects from Gordion are now recognized as the most important collection of well preserved wooden artifacts excavated from the Near East Included in this volume are new photographs reconstruction drawings and eight scientific technical appendices Contributors include Harry Alden Burhan Aytu Mary W Ballard Robert A Blanchette Roland Cunningham Laure Dussubieux Patrick E McGovern Benjamin Held Walter Hopwood Joseph Koles Lynn E Roller Krycia Spirydowicz this work goes well beyond a typical site specific object catalogue and makes important contributions to a wide range of scholarly fields both technical and conceptual from textile and wood analysis to anthropological and religious studies Elizabeth P Baughan University of Richmond The book succeeds in its main aims of making available every scrap of information about the finds and it illuminates form techniques and function in a most convincing and stimulating manner Catherine M Draycott Courtauld Institute of Art

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