

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

Name **GILBERTO ARTIOLI**
Home Address **VIA LUIGI PELLIZZO 39, I-35128 PADOVA, ITALY**
Work Address **DIPARTIMENTO DI GEOSCIENZE, UNIVERSITÀ DI PADOVA
VIA GRADENIGO 6, I-35131 PADOVA, ITALY**
Telephone **+39 049 827 9162**
Fax **+39 049 827 9111**
E-mail **gilberto.artioli@unipd.it**

Nationality Italy
Date of birth 03-february-1957

CAREER

2006 – to date FULL PROFESSOR. UNIVERSITÀ DEGLI STUDI DI PADOVA, DIPARTIMENTO DI GEOSCIENZE
1999 - 2006 FULL PROFESSOR. UNIVERSITÀ DEGLI STUDI DI MILANO, DIPARTIMENTO DI SCIENZE DELLA TERRA
1992 - 1999 ASSOCIATE PROFESSOR. UNIVERSITÀ DEGLI STUDI DI MILANO, DIPARTIMENTO DI SCIENZE DELLA TERRA
1983 - 1992 RESEARCH ASSISTANT. UNIVERSITÀ DEGLI STUDI DI MODENA, ISTITUTO DI MINERALOGIA E PETROLOGIA
1994 - 1995 TECHNICAL COLLABORATOR. BROOKHAVEN NATIONAL LABORATORY, DEPARTMENT OF CHEMISTRY AND HIGH FLUX BEAM REACTOR

1988 - 1989 TECHNICAL COLLABORATOR. BROOKHAVEN NATIONAL LABORATORY, DEPARTMENT OF CHEMISTRY
1983 - 1985 TECHNICAL COLLABORATOR. BROOKHAVEN NATIONAL LABORATORY, DEPARTMENT OF CHEMISTRY AND NATIONAL SYNCHROTRON LIGHT SOURCE

1981 - 1985 RESEARCH ASSISTANT. THE UNIVERSITY OF CHICAGO, DEPARTMENT OF THE GEOPHYSICAL SCIENCES

HIGHER EDUCATION

- December 1985 "Doctor of Philosophy", The University of Chicago
- December 1980 "Laurea in Scienze Geologiche, cum laude", Università degli Studi di Modena

HONORS

- March 2021 Waltrude and Friedrich Liebau Prize for the Promotion of Interdisciplinarity in Crystallography, German Society for Crystallography (DGK)
- September 2018 Giacomo Levi Gold medal of the Italian Chemical Society-Division of Industrial Chemistry
- April 2015 Socio Nazionale. Accademia Nazionale delle Scienze detta dei XL
- April 2015 Socio Corrispondente. Accademia Galileiana di Scienze, Lettere ed Arti in Padova
- June 2014 International Prize Luigi Tartufari. Accademia Nazionale dei Lincei
- October 2013 Member. Accademia Europaea
- March-August 2007 Conservation Guest Scholar, The Getty Conservation Institute, Los Angeles
- April 2005-June 2006 Visiting Scientist. CeSMEC Center for the Study of Matter at Extreme Conditions, FIU, Miami
- June 1998 Fellow. The Mineralogical Society of America
- June-December 1988 Grant for research abroad, Consiglio Nazionale delle Ricerche
- September 1986 Premio Ugo Panichi. Società Italiana di Mineralogia e Petrologia
- April 1984 Travel grant. Special Cultural Enrichment Fund, Institute for International Education
- October 1981-October 1982 Salisbury Fellowship. The University of Chicago, Division of the Physical Sciences

• September 1981

Fulbright Travel grant. Istituto per gli scambi culturali Italia-Stati Uniti

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE
OTHER LANGUAGES

ITALIAN
English, French

SCIENTIFIC AND ACADEMIC ACTIVITY

ACADEMIC TEACHING

UNIVERSITÀ DI PADOVA

2022-TO DATE

COURSE OF **AUTHENTICATION: CONCEPTS AND METHODS**, INTERNATIONAL MASTER IN APPLIED SCIENCES TO CULTURAL HERITAGE MATERIALS AND SITES

2022-TO DATE

COURSE OF **MANAGEMENT AND VALORIZATION OF CULTURAL HERITAGE SITES**, INTERNATIONAL MASTER IN APPLIED SCIENCES TO CULTURAL HERITAGE MATERIALS AND SITES

2022-TO DATE

COURSE OF **MATERIALS PROPERTIES, USE AND CONSERVATION: METALS AND METALLURGICAL PROCESSES**, INTERNATIONAL MASTER IN APPLIED SCIENCES TO CULTURAL HERITAGE MATERIALS AND SITES

2021-TO DATE

COURSE OF **INTEGRATED ANALYSIS OF CULTURAL HERITAGE MATERIALS**, INTERNATIONAL MASTER IN APPLIED SCIENCES TO CULTURAL HERITAGE MATERIALS AND SITES

2021-TO DATE

COURSE OF **DATING LABORATORY**, INTERNATIONAL MASTER IN APPLIED SCIENCES TO CULTURAL HERITAGE MATERIALS AND SITES

2021-TO DATE

COURSE OF **FIELD/LABORATORY WORK**, INTERNATIONAL MASTER IN APPLIED SCIENCES TO CULTURAL HERITAGE MATERIALS AND SITES

2016-2022

COURSE OF **CRYSTAL CHEMISTRY AND PROPERTIES OF INDUSTRIAL MATERIALS**, CORSO DI LAUREA IN SCIENZA DEI MATERIALI

2006-2022

COURSE OF **CRYSTALLOGRAPHY - STRUCTURE OF SOLIDS**, CORSO DI LAUREA IN SCIENZA DEI MATERIALI

2006-2022

COURSE OF **ENVIRONMENTAL MINERALOGY**, CORSO DI LAUREA IN SCIENZE E TECNOLOGIE PER L'AMBIENTE ED IL TERRITORIO

UNIVERSITÀ DI MILANO

2002-2007

COURSE OF **ANALYTICAL TECHNIQUES FOR CULTURAL HERITAGE**, CORSO DI LAUREA IN SCIENZE GEOLOGICHE

1998-2003

COURSE OF **APPLIED MINERALOGY**, CORSO DI LAUREA IN SCIENZE GEOLOGICHE

1996-2007

COURSE OF **CRYSTALLOGRAPHY**, CORSO DI LAUREA IN SCIENZE GEOLOGICHE

1992-1998

COURSE OF **MINERALOGY**, CORSO DI LAUREA IN CHIMICA E CHIMICA INDUSTRIALE

UNIVERSITÀ DI MODENA

1986-1992

TEACHING ASSISTANT, COURSE OF MINERALOGY, CORSI DI LAUREA IN SCIENZE GEOLOGICHE, CHIMICA E SCIENZE NATURALI

1984-1986

TEACHING ASSISTANT, COURSE OF PETROGRAPHY, CORSO DI LAUREA IN SCIENZE GEOLOGICHE

THE UNIVERSITY OF CHICAGO

- January - March 1983
- October - December 1982

TEACHING ASSISTANT, COURSE OF INTRODUCTION TO GEOLOGICAL SCIENCES

TEACHING ASSISTANT, COURSE OF PETROLOGY

TUTORING

1988-2022

TUTOR OF **>70** UNDEGRUATE AND MASTER DISSERTATIONS

1994-2022

TUTOR OF **>25** PHD DISSERTATIONS

SCIENTIFIC PRESENTATIONS

INVITED LECTURES

>150 Invited lectures and seminars at Academic Institutions, Public Schools, and Cultural Institutes (List in **Annex 1**)

PRESENTATIONS AT SCIENTIFIC
CONFERENCES AND SCHOOLS

>500 Presentations and contributions to Scientific Conferences, Meetings, Workshops, and Schools (list in **Annex 2**)

SCIENTIFIC PUBLICATIONS

PUBLICATIONS IN PRINT

>500 publications and books (List in **Annex 3**)

H-INDEX 46 (ISI Web of Science)(Researcher ID F-2149-2015)
H-INDEX 48 (Scopus Author ID 56582666300)
H-INDEX 58 (Google Scholar)
ORCID <https://orcid.org/0000-0002-8693-7392>

MANAGING, SERVICES

OCTOBER 2021-TO DATE Proponent and coordinator of the International Master course on “Applied sciences to cultural heritage materials and sites” (ASCH), Università di Padova-Université Bordeaux Montaigne-University of Haifa

JUNE 2015-TO DATE Scientific responsible, Mineralogical collections, MNU Museo della Natura e dell’Uomo, Padova
FEBRUARY 2021-2023 Vice-President of the AIC, Associazione Italiana di Cristallografia
2017-TO DATE Member of the panels for the evaluation of experiment proposals (Panel ISP-7) at ISIS, Rutherford Appleton Laboratory, Didcot, UK

JANUARY 2015 AND SEPTEMBER 2018 Scientific responsible of the OpenLab Turkey initiative organized by UNESCO-IUCr-PANalytical-University of Bilkent, Ankara

2014-2023 Chairman of the Commission on Crystallography in Art and Cultural Heritage (CrysAC) of the International Union of Crystallography (IUCr). <http://www.iucr.org/iucr/commissions/ccach>

JUNE 2014 Scientific responsible of the OpenLab Ghana initiative organized by UNESCO-IUCr-PANalytical-University of Ghana, Accra

OCTOBER 2013-MARCH 2014 Organizer of the CRISTALLI! Exhibition held on the occasion of the International Year of Crystallography 2014 promoted by UNESCO and IUCr

2011-2014 AND 2023-TO DATE Consultant of the Commission on Crystallography in Art and Cultural Heritage (CrysAC) of the International Union of Crystallography (IUCr)

2010-TO DATE Director of the Centro Interdipartimentale di Ricerca per lo “Studio dei materiali cementizi e dei leganti idraulici” (CIRCe) of the Università degli Studi di Padova

2010-TO DATE Scientific responsible of the Museum of Mineralogy, Università di Padova
2010 Member of the Max Perutz ECA Prize Committee

2008-TO DATE Member of the CNR committee for the IUCr activities
2006-2009 Director of the Doctorate School on Earth Sciences, Dipartimento di Geoscienze, Università degli Studi di Padova

2001-2002 Member of the Science Advisory Committee, ESRF, Grenoble
2000-2006 Director of the Doctorate School on Earth Sciences, Dipartimento di Scienze della Terra, Università degli Studi di Milano

1999-2002 Member of the Crystallography panel for the evaluation of experiment proposals (Panel ISP-1) at ISIS, Rutherford Appleton Laboratory, Didcot, UK

1998-2004 Member and Vice-chairman of the European Powder Diffraction Conferences (EPDIC) Committee

1998-2004 Member of the Structure Commission of the International Zeolite Association (IZA)
1998-2003 Member of the Chemistry panel for the evaluation of experiment proposals at ESRF, Grenoble
1997-2000 Invited member of the International Centre for Diffraction Data (ICDD)
1995-1999 Member of the CNR *Commissione di studio per il coordinamento delle attività di radiazione di sincrotrone*

1995-1998 Member of the evaluation committee of experiment proposals at the GILDA beamline, ESRF, Grenoble

1995-1996 Member of the working group for the scientific case of the European Science Foundation concerning the European Spallation Source (ESS)

1993-1996 Member of the *International Committee on New Minerals and New Mineral Names: Subcommittee on Natural Zeolites, Chairman D.S. Coombs*

1992 Founding member of the Società Italiana di Luce di Sincrotrone (SILS)

MAJOR GRANTS

2019-2022 **National coordinator of the project COFIN2017** “Mineral reactivity, a key to understand large-scale processes: from rock forming environments to solid waste recovering/lithification”

2018-2021 Scientific responsible of the research agreement between **Università di Padova e MAPEI S.p.a.** on cement materials. 4 years project funded by MAPEI

2013-2015 **National coordinator of the project COFIN2010-2011** “Mineral-biosphere interaction: consequences for the environment and human health”

2007-2017	Scientific responsible of the research agreement between Università di Padova e MAPEI S.p.a. on cement materials. 10 years project funded by MAPEI
2006-2009	Scientific coordinator of the project "Prehistoric pyrotechnology: insights on hominid behaviour from high resolution study of combustion features". Funded by EU (FP6-2005-Mobility-6) as Marie Curie International Outgoing Fellowship (OIF) in collaboration with Paul Goldberg (University of Boston)
2006	Scientific coordinator of the project "L'inizio della metallurgia nell'area alpina: studio analitico delle evidenze archeologiche dell'Italia del Nord". Progetto Galileo 2006/2007 , funded by the Università Italo-Francese in collaboration with David Bourgarit (C2RMF, Louvre, Paris)
2004-2006	National coordinator of the project COFIN2004 "Microstructure, morphology, and reactivity: modeling and measurement of crystallization and dissolution processes in minerals"
2002-2004	National coordinator of the project COFIN2002 "Mechanisms of surface reactions in minerals: kinetics of dissolution and growth, and their modeling"
2000-2002	National coordinator of the project COFIN2000 "Surface chemical reactions in minerals: intercalation and adsorption processes"
ORGANIZATION OF MEETINGS, WORKSHOPS, SCHOOLS	<i>(scientific organizer and chair of >60 sessions and symposia at national and international meetings in the period 1991-2018)</i>
AUGUST 2024	Chair of the 34th ECM European Crystallographic meeting, Padova, 26-30 August 2024
AUGUST 2022	6th CrysAC Workshop "Nano- and micro-diffraction for cultural heritage", C2RMF-Louvre, Paris, France, 22 August 2022
AUGUST 2019	5th CrysAC Workshop "Crystallography of metals and metal corrosion", Vienna, Austria, 17 August 2019
JANUARY-FEBRUARY 2019	Chair of the Scientific Committee of the 2 nd Pan African Conference on Crystallography PCCr2, Accra, Ghana, 28 January-2 February 2019
MAY 2018	3 rd CrysAC Workshop "Recent advances in the investigation of ancient mortars and binders", Merida, Mexico, 20 May 2018
MAY 2017	2 nd CrysAC Workshop "Applied crystallography in the study of pigment degradation", Brno, Czech Republic, 31 May 2017
MAY 2016	1 st CrysAC Workshop "Cultural heritage authentication and forensic science", Krakow, Poland, 18 May 2016
APRIL 2014	Main organizer of the 3 rd International Mortar Dating Workshop. Padova, 14-16 April 2014
NOVEMBER 2012	Organizer and chair of the Workshop on "Geopolymers: present and future", Mapei Auditorium, Milano, 16 november 2012
FEBRUARY 2012	Organizer and Chairman of the PANalytical Workshop on "Advanced XRD applications", Bologna, 14 february 2012
MARCH 2005	Organizer of the International PANalytical Workshop on "Non ambient diffraction", Tirrenia
JUNE 2004	Co-organizer of the National GNM School on "Proprietà ed applicazioni dei minerali alla nanoscala"
APRIL 2003	Co-organizer of the National AIC School on "Meccanismi della crescita cristallina: fondamenti e applicazioni"
JUNE 1996	Chairman and main organizer of the 5 ^a European Powder Diffraction Conference, Parma, Italy
MARCH 1995	Co-organizer of the 4th National School on "Diffrazione a raggi X su materiali policristallini", Gargnano, BS
SEPTEMBER 1991	Organizer of the 1st National school on "Metodi avanzati di analisi diffrattometrica di campioni policristallini", Modena
EDITORIAL ACTIVITY	
EDITOR	2020-to date: Member of the Editorial Board of <i>Authenticity Studies, International Journal of Archaeology and Art</i>, published by Padova University Press
	2017-2018 Editor of the <i>Encyclopedia of Archaeological Sciences</i>, Wiley-Blackwell
	2016 Editor of <i>Elements</i>, special issue on <i>Earth Sciences for the Cultural Heritage</i>, February 2016
	2013-to date. Member of the Editorial Board of <i>PCA European Journal of Post-Classical Archaeologies</i>
	2009-to date. Managing Editor of <i>Archaeometry</i>
	2008-to date. Associate Editor of the Journal <i>Archaeological and Anthropological Sciences</i>
	2003-2009. Member of the Advisory Board of <i>Archaeometry</i>

2002-to date. **Member of the Scientific Committee of the *Rivista Mineralogica Italiana***
1996-2010. **Member of the International Advisory Board of *Materials Science Forum***
1995-1999. **Associate Editor of the *American Mineralogist***

- REFEREE
- *Acta Crystallographica B*
 - *American Mineralogist*
 - *Applied Physics A*
 - *Archaeometry*
 - *Associazione Italiana Archeometria*
 - *Associazione Italiana Zeoliti*
 - *Bulletin de Mineralogie*
 - *Canadian Mineralogist*
 - *Clays and Clay Minerals*
 - *Construction and Building Materials*
 - *Cristallography Reviews*
 - *European Journal of Inorganic Chemistry*
 - *European Journal of Mineralogy*
 - *European Physical Journal Plus*
 - *Geochimica and Cosmochimica Acta*
 - *Journal of Applied Crystallography*
 - *Journal of Archaeological Sciences*
 - *Journal of Archaeological and Anthropological Sciences*
 - *Journal of Cultural Heritage*
 - *Journal of Inclusion Phenomena*
 - *Journal of Physics and Chemistry of Solids*
 - *Journal of Synchrotron Radiation*
 - *The Journal of Physical Chemistry*
 - *Intern. Committee on Natural Zeolites*
 - *Microporous and Mesoporous Materials*
 - *Mineralogical Magazine*
 - *Mineralogy and Petrology*
 - *Nuovo Cimento*
 - *Periodico di Mineralogia*
 - *PlosOne*
 - *Physics and Chemistry of Minerals*
 - *Physics Review Letters*
 - *Science Advances*
 - *Zeitschrift für Kristallographie*

PROJECT REVIEWER

European Research Council (ERC) – European Science Foundation (ESF)
Progetti di Ricerca di Interesse Nazionale (PRIN) – Min. Istruzione, Università e Ricerca (MIUR)
Valutazione dei prodotti e della qualità della ricerca (VQR)
Swiss National Science Foundation (SNSF)
Austrian Science Fund (FWF)
ETH Zurich Research Commission
FWO Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen)
Leibniz Research and Cooperation Projects – The Leibniz Association, Bonn
The British Academy (BA) – Leverhulme Grants
Georgia National Science Foundation (GNSF) – Shota Rustaveli Foundation
NSC National Science Centre, Poland
Russian Science Foundation (RSF) – Russian International Affairs Council (RIAC)
The Rutherford Appleton Laboratory (RAL) International Fellowship Programme
Università di Torino (UNITO) – Compagnia di San Paolo
Università Italo-Francese (UIF) – Progetti Vinci
Weizmann Institute – Rehovot, Israel

1. Maggio 1984 Studying water in zeolites by neutron diffraction - The University of Chicago, Department of the Geophysical Sciences.
2. Dicembre 1984 Molecole d'acqua e legame idrogeno nelle strutture cristalline - Università di Modena, Istituto di Mineralogia e Petrologia.
3. Marzo 1989 Analisi strutturale da polveri, ovvero: il Rietveld questo sconosciuto - Università di Modena, Istituto di Mineralogia e Petrologia.
4. Giugno 1989 Automazione della diffrazione-X da polveri (XRPD) e applicazioni - Università di Cagliari, Dipartimento di Scienze della Terra.
5. Settembre 1989 Analisi strutturale mediante diffrattometria a raggi-X di campioni policristallini - Università di Pisa, Dipartimento di Scienze della Terra.
6. Ottobre 1989 Zeolites. Structure and applications - Trento, Castel Ivano, Workshop: "Industrial minerals".
7. Dicembre 1989 Diffrazione da campioni policristallini con raggi-X prodotti da sorgenti convenzionali e radiazione di sincrotrone - Roma, CNR, Workshop: "Diffrattometria di polveri: una metodologia in rapida espansione".
8. Febbraio 1990 Structure analysis by x-ray diffraction of polycrystalline materials - Technische Universität Wien, Institut für Mineralogie, Kristallographie und Strukturchemie.
9. Marzo 1990 Tecniche diffrattometriche non convenzionali - Università di Ferrara, Istituto di Mineralogia.
10. Marzo 1990 Raffinamenti strutturali mediante diffrazione da campioni policristallini - Università di Ferrara, Istituto di Mineralogia.
11. Settembre 1990 Diffrazione neutronica da monocristalli - Perugia, Associazione Italiana di Cristallografia, Scuola: "La diffrattometria nell'analisi strutturale: introduzione ai metodi sperimentali".
12. Settembre 1990 Diffrattometria da campioni policristallini con luce di sincrotrone - S. Margherita di Pula, I Scuola Nazionale di Luce di Sincrotrone e Ricerca Chimica.
13. Novembre 1990 X-ray powder diffraction: its use and application to structural analysis - Lund University, Inorganic Chemistry, Chemical Center.
14. Dicembre 1990 Diffrazione di campioni policristallini con raggi-X: applicazioni del "secondo metodo" - Frascati, INFN, Laboratori Nazionali di Frascati, PULS.
15. Aprile 1991 Luce di sincrotrone e diffrazione di campioni policristallini - Università di Milano, Istituto di Chimica Fisica, Corso di specializzazione in tecnologia dei materiali.
16. Aprile 1991 Applicazioni delle tecniche di analisi strutturale nella diffrazione da polveri - Università di Perugia, Dipartimento di Scienze della Terra.
17. Settembre 1991 Diffrazione di materiali policristallini: geometrie, aberrazioni e risoluzione sperimentali - Università di Modena, Istituto di Mineralogia e Petrologia, Scuola: "Metodi avanzati di analisi diffrattometrica di campioni policristallini".
18. Settembre 1991 Analisi strutturale mediante metodo Rietveld - Università di Modena, Istituto di Mineralogia e Petrologia, Scuola: "Metodi avanzati di analisi diffrattometrica di campioni policristallini".
19. Settembre 1991 Analisi quantitativa di componenti cristallini ed amorfi in miscele polifasiche mediante metodo Rietveld - Università di Modena, Istituto di Mineralogia e Petrologia, Scuola: "Metodi avanzati di analisi diffrattometrica di campioni policristallini".
20. Marzo 1992 Luce di sincrotrone: recenti sviluppi e prospettive - Milano, CNR, Centro di Studio per le Relazioni tra Struttura e Reattività Chimica.
21. Aprile 1992 Luce di sincrotrone e diffrazione di campioni policristallini - Università di Milano, Istituto di Chimica Fisica, Corso di specializzazione in tecnologia dei materiali.
22. Giugno 1992 Luce di sincrotrone. Applicazioni nelle scienze mineralogiche - Assisi, Gruppo Nazionale di Mineralogia, Scuola di Mineralogia Sperimentale.
23. Settembre 1992 Diffrazione da materiali policristallini - S. Margherita di Pula, II Scuola Nazionale di Luce di Sincrotrone e Ricerca Chimica.
24. Novembre 1992 Diffrazione da cristallo singolo con neutroni e raggi-X - Montelibretti, Area della Ricerca CNR, III Scuola Nazionale di Diffrazione con Neutroni e Raggi-X.
25. Novembre 1993 Analisi mineralogica quantitativa: metodo Rietveld - Milano, Gruppo Nazionale di Mineralogia, Workshop: "Mineralogia e informatica".
26. Febbraio 1994 Simulazione di strutture a strati - Università di Trento, Facoltà di Ingegneria, "Giornate di Studio sulla Diffrattometria a Raggi X da Materiali Policristallini. Caratterizzazione Microstrutturale dei Materiali Via XRD".
27. Maggio 1994 In situ X-ray powder diffraction - Volterra, Gordon Research Conference on "Phase Transitions in Non-Metallic Solids".
28. Giugno 1994 Trasformazioni di fase e cinetiche di reazione - Grado, Gruppo Nazionale di Mineralogia, Scuola di Mineralogia su "Le reazioni mineralogiche: aspetti chimico-fisici".
29. Febbraio 1995 Synchrotron X-ray powder diffraction: recent developments and applications in the Earth Sciences - III Univ. di Roma, International workshop on "Applications of synchrotron radiation to Earth and Materials Science".
30. Marzo 1995 Developments of XRPD in Mineralogy - Gargnano, Villa Feltrinelli, "Giornate di Studio sulla Diffrattometria a Raggi X da Materiali Policristallini. Il contributo della diffrazione a polveri alla cristallografia strutturale: tecniche Rietveld ed ab-initio".
31. Aprile 1995 Introduzione ai moderni metodi di analisi diffrattometrica da polveri ed Introduzione al metodo Rietveld - Università di Modena, Dottorato di Ricerca in Mineralogia e Cristallografia, Seminario su "Introduzione alla diffrattometria di polveri: raccolta dati ed analisi di profilo".

32. Ottobre 1995 Diffrazione da materiali policristallini - S. Margherita di Pula, III Scuola Nazionale di Luce di Sincrotrone.
33. July 1996 Temperature induced transformations in natural zeolites - National Synchrotron Light Source, Brookhaven National Laboratory.
34. Settembre 1996 Diffrazione di neutroni da materiali policristallini - Capo d'Orso, Palau, III Scuola di Diffrazione e Spettroscopia Neutronica.
35. Dicembre 1996 Applications of HT powder diffraction in materials science - Centre Technique Groupe Italcementi-Ciment Français, Guerville.
36. Aprile 1997 Luce di sincrotrone: proprietà ed applicazioni - Novara, ENICHEM, Istituto Donegani.
37. Settembre 1997 Sorgenti di neutroni. Geometrie sperimentali in diffrazione - Perugia, Associazione Italiana di Cristallografia, Scuola: "Sorgenti non convenzionali in cristallografia: fondamenti ed applicazioni".
38. Gennaio 1998 Luce di sincrotrone: applicazioni nelle Scienze della Terra - Università di Milano, Dipartimento di Scienze della Terra.
39. Giugno 1998 Dehydration processes in natural zeolites - Firenze, Gruppo Nazionale di Mineralogia, Giornate di Studio su "L'acqua nei minerali".
40. Settembre 1998 Diffrazione da polveri. Introduzione al metodo Rietveld - Capo d'Orso, Palau, IV Scuola di Spettroscopia Neutronica.
41. Aprile 2001 Zeoliti e materiali microporosi - Milano, Politecnico, Dipartimento di Chimica Industriale e Ingegneria Chimica, Corso di Catalisi Industriale.
42. August 2001 Applications of powder diffraction for high pressure studies - Miami, Florida International University, Center for the Study of Matter at Extreme Conditions.
43. August 2001 In-situ studies of the dehydration process in natural zeolites - Miami, Florida International University, Department of Geology.
44. Settembre 2001 Applicazioni della diffrazione di polveri con luce di sincrotrone - S. Margherita di Pula, VI Scuola Nazionale di Luce di Sincrotrone.
45. Febbraio 2002 Archeometallurgia del rame nelle Alpi Orientali - Milano, Dipartimento di Scienze della Terra, Giornate Assereto 2002.
46. Gennaio 2003 Applications of mineralogy to archeometry - Genova, INFM, Workshop su Nuove opportunità nella caratterizzazione di materiale archeologico e storico-artistico.
47. Aprile 2003 Tecniche sperimentali nello studio delle cinetiche di nucleazione e crescita cristallina - Gargnano, Scuola Nazionale AIC su Meccanismi della crescita cristallina: fondamenti e applicazioni.
48. Maggio 2003 Serie di lezioni del corso di Analisi Mineralogiche - Capo di Ponte, Corso di formazione per gli addetti agli interventi di conservazione, manutenzione e gestione del patrimonio di arte rupestre preistorico e storico.
49. Giugno 2003 Atomic displacement parameters from diffraction studies: The experimental evidence - Gargnano, EMU School on "Energy modelling in minerals".
50. Giugno 2004 Caratterizzazione non distruttiva di manufatti archeologici. - Castiglioncello, Rosignano Marittimo, Corso ANSER su "Tecnologie e metodologie innovative per lo studio e il restauro di manufatti archeologici".
51. Giugno 2004 Tecniche analitiche per studi di archeometallurgia. - Trento, VI Scuola P. Giordano Orsini su "Caratterizzazione microstrutturale dei materiali per l'ingegneria".
52. Giugno 2004 Geometrie di diffrazione di polveri: ottiche e rivelatori. - Alessandria, Scuola estiva AIC su "Diffrazione di materiali policristallini".
53. Giugno 2004 Introduzione al metodo Rietveld. - Alessandria, Scuola estiva AIC su "Diffrazione di materiali policristallini".
54. Novembre 2004 Archeometria e archeometallurgia - Milano, Corso di Archeometallurgia, Ingegneria Meccanica, Politecnico di Milano.
55. April 2005 The Iceman's axe: Texture applied to archaeometallurgy - Pittsburgh, Carnegie Mellon University, Dept. of Materials Science and Engineering.
56. April 2005 Crystallographic texture analysis: A non invasive tool in archaeometallurgy - Los Angeles, The Getty Conservation Institute.
57. Giugno 2005 Tecniche di caratterizzazione nei beni culturali - Corso di Laurea in Scienze e Tecnologie per i Beni Culturali, Petralia Sottana, Palermo.
58. Novembre 2005 Tecniche di datazione archeometriche - Milano, Corso di Archeometallurgia, Ingegneria Meccanica, Politecnico di Milano.
59. December 2005 Diffraction techniques: instrumental components - Dakar, 1st African School and Workshop on X-rays in Materials, Université Cheik Anta Diop.
60. December 2005 Diffraction techniques: non ambient applications - Dakar, 1st African School and Workshop on X-rays in Materials, Université Cheik Anta Diop.
61. Marzo 2006 Mineralogia, Scienze della Terra, archeometria e beni culturali - Liceo Classico Carlo Alberto, Novara.
62. Aprile 2006 Archeometallurgia alpina: problemi e prospettive - Como, Università dell'Insubria, Dipartimento di Scienze Chimiche ed Ambientali, Workshop "La valorizzazione del territorio e del patrimonio culturale nello spazio alpino".
63. Maggio 2006 In situ XRD studies in modern industrial materials - Lausanne, École Polytechnique Fédérale de Lausanne, Laboratoire de Cristallographie
64. Maggio 2006 I metalli nel mondo antico - Corso di Laurea in Scienze e Tecnologie per i Beni Culturali, Petralia Sottana, Palermo.
65. Giugno 2006 Analisi scientifiche e archeometallurgia: Contributo al progetto di studio e valorizzazione dei reperti di Monte Cavanero - Comune di Chiusa di Pesio, Cuneo.

66. Giugno 2006 Diffrazione da materiali policristallini II: Geometrie e componenti strumentali – Martina Franca, Scuola Nazionale di "Diffrazione da materiali policristallini"
67. Giugno 2006 Tecniche di affinamento Rietveld – Martina Franca, Scuola Nazionale di "Diffrazione da materiali policristallini"
68. Dicembre 2006 Tecniche di datazione archeometriche – Milano, Corso di Archeometallurgia, Ingegneria Meccanica, Politecnico di Milano
69. Gennaio 2007 Cement materials and processes. Problems and perspectives – MAPEI S.p.a., Milano
70. May 2007 Scientific pastimes: The measurement of past time in archaeometry – The Getty Conservation Institute, Los Angeles
71. May 2007 BNL memories: HFBR, NSLS and more - Symposium in honor of Åke Kvick, ESRF, Grenoble
72. August 2007 The archaeometry of metals – Summer school in ancient and historic metals, Cotsen Institute of Archaeology, UCLA, Los Angeles
73. August 2007 The archaeometry of glass – The Getty Conservation Institute, Los Angeles
74. Dicembre 2007 Tecniche di datazione archeometriche – Milano, Corso di Archeometallurgia, Ingegneria Meccanica, Politecnico di Milano
75. March 2008 Neutrons in archaeometry – Dipartimento di Fisica, Università di Perugia
76. May 2008 X-ray powder diffraction analysis in non ambient conditions - Doctorate School of Chemical Sciences and Technologies, Course on "Thermodynamics of solid state transformations, induced by low temperature and high pressure: experimental observation and theoretical interpretations"; Dipartimento di Chimica Strutturale e Stereochimica Inorganica, Università di Milano
77. October 2008 L'analisi neutronica in archeometria – Ciclo: Conferenze nei musei. Bergamo Scienza 2008, Bergamo
78. Dicembre 2008 Tecniche di datazione archeometriche – Milano, Corso di Archeometallurgia, Ingegneria Meccanica, Politecnico di Milano
79. Dicembre 2008 Microtomography and microdiffraction combined analysis of cement materials – Milano, Mapei Spa. Workshop on cement based materials
80. January 2009 X-ray diffraction techniques: instrumentation and experimental methods – Dakar, 2nd African School and Workshop on X-rays in Materials, Université Cheik Anta Diop.
81. January 2009 X-ray diffraction techniques: analysis and applications – Dakar, 2nd African School and Workshop on X-rays in Materials, Université Cheik Anta Diop.
82. Marzo 2009 Agordo – una tessera importante nel mosaico dell'archeometallurgia del rame. Sede BIM, Consorzio dei Comini del Bacino Imbrifero Montano del Piave, Belluno.
83. Aprile 2009 Archeometallurgia: problemi e prospettive. Scuola di specializzazione in archeologia, Università di Udine
84. Maggio 2009 Caratterizzazione di paste cementizie: Risultati recenti e prospettive. Giovanni Bozzetto Spa, Filago, Bergamo
85. Giugno 2009. Mineralizzazioni e produzioni del rame in ambito bellunese. Giornata di studio "Il castelliere di Castel de Pedena". Feltre, Fondazione Angelini
86. Dicembre 2009 Tecniche di datazione archeometriche – Milano, Corso di Archeometallurgia, Ingegneria Meccanica, Politecnico di Milano
87. Dicembre 2009 Le zeoliti tra natura ed industria – Preziosa 2009, Novegro, Milano
88. Dicembre 2009 "CIRCe Center: preliminary results" – Workshop on the chemistry of cement, Mapei Auditorium, Milano
89. Maggio 2010 "Diffrazione in condizioni non ambiente" e "Applicazioni ai beni culturali" – Corso di Formazione "Analisi Rietveld delle figure di diffrazione ottenibili da raggi-X e/o neutroni", CNR Istituto Sistemi Complessi, Sesto Fiorentino
90. Giugno 2010 "XRPD in laboratorio: status e prospettive" – Corso di diffrattometria a raggi-X, CIGS, Università di Modena e Reggio Emilia, Modena
91. Giugno 2010 "CIRCe Center: cement hydration studies" - Workshop on cement based materials, Mapei Analytical Laboratories, Milano
92. Luglio 2010 Copper archaeometallurgy: principles, methods, applications. – APSAT Summer School, S. Michele all'Adige, Trento.
93. Ottobre 2010 Archeometria e metallurgia primaria del rame. Dal giacimento all'estrazione del minerale. Scuola Appunti di tecnologia antica 3. Rame e dintorni. Museo di Storia Naturale e Archeologia, Montebelluna.
94. Novembre 2010 Le miniere di rame nel territorio agordino: Ricostruzione della storia estrattiva e della diffusione del metallo. Gruppo Archeologico Agordino, Chiesa Arcidiaconale di Agordo.
95. Gennaio 2011. Il ruolo dell'archeometria oggi. Tavola rotonda in occasione del workshop "Immensa aequora", Università la Sapienza, Roma.
96. Febbraio 2011. Analisi archeometallurgiche: metodi e casi di studio. Workshop "La metallurgia delle Alpi centro-orientali nella tarda età del Bronzo: nuovi dati", Dipartimento di Archeologia, Università di Padova.
97. Febbraio 2011. How to communicate science. Progetto COMENIUS. Istituto Tecnico Industriale "Leonardo da Vinci", Carpi.
98. Febbraio 2011. Science and the cultural heritage. Progetto COMENIUS. Istituto Tecnico Industriale "Leonardo da Vinci", Carpi.
99. Aprile 2011. Archeometallurgia del rame in Trentino: metodi e nuovi dati. Incontri di archeometallurgia "Rame, alla ricerca delle miniere perdute". Provincia Autonoma di Trento, Spazio SASS, Trento.
100. Maggio 2011. Metodi scientifici per i beni culturali. Sala Baro, Ponte di Brenta, GMPE Gruppo Mineralogico e Paleontologico Euganeo.

101. Ottobre 2011. Rame nelle Alpi – Ricostruzione della storia estrattiva. Sala Baro, Ponte di Brenta, GMPE Gruppo Mineralogico e Paleontologico Euganeo.
102. January 2012. X-ray powder diffraction: instruments and methods – 3rd African School and Workshop on X-rays in Materials, Université Cheik Anta Diop, Dakar.
103. January 2012. X-ray powder diffraction: data analysis and profile fitting – 3rd African School and Workshop on X-rays in Materials, Université Cheik Anta Diop, Dakar.
104. January 2012. Application of X-ray powder diffraction: the case of cements – 3rd African School and Workshop on X-rays in Materials, Université Cheik Anta Diop, Dakar.
105. Aprile 2012. Dal minerale al metallo: interpretazione della provenienza e diffusione del rame preistorico – Incontri con l'archeologia "La via dei metalli", Museo Civico "D. Dal Lago", Valdagno.
106. Settembre 2012. Powder diffraction: experimental geometries and instrumentation. AIC International School – 10th Paolo Giordano Orsini School, Trento.
107. Settembre 2012. Applications of powder diffraction: non ambient experiments. AIC International School – 10th Paolo Giordano Orsini School, Trento.
108. Settembre 2012. Applications of powder diffraction: cultural heritage. AIC International School – 10th Paolo Giordano Orsini School, Trento.
109. Dicembre 2012. Cemento o non cemento, questo è il problema. Seminario e discussione, CEM Mondialità, Centro Saveriano di Animazione Missionaria, Brescia
110. Gennaio 2013. Scienza per i beni culturali: il fascino di un amore difficile. Università di Pavia, Dipartimento di Scienze della Terra e dell'Ambiente – Dottorato di Ricerca in Scienze della Terra
111. March 2013. The Alpine Iceman (Ötzi) - Understanding our Human Past through Science. New York University – Abu Dhabi.
112. March 2013. Scientific methods and the cultural heritage: Developments and trends. New York University – Abu Dhabi.
113. Maggio 2013. Metodi scientifici e patrimonio culturale: problemi, tendenze, prospettive. Budapest, Istituto Italiano di Cultura, Workshop "Il futuro del nostro passato"
114. Giugno 2013. Metodi di studio dei reperti archeologici ed artistici. Milano, incontro di discussione organizzato dal Dr. Vincenzo Nociti.
115. Giugno 2013. Applicazioni industriali della diffrazione da polveri. Modena, Workshop PANalytical: "Corso teorico-pratico sull'uso della diffrazione di raggi-X da polveri nella scienza dei materiali ed applicazioni industriali"
116. Novembre 2013. Rapporto sulla convenzione di ricerca MAPEI-UNIPD. Milano, Workshop di aggiornamento presso i Laboratori Mapei.
117. Giugno 2014. L'evoluzione storica dei leganti idraulici. Monselice, Convegno "I paesaggi del cemento"
118. Giugno 2014. Fundamentals of crystallography and diffraction. Powder diffraction and applications. Full profile refinement. Accra, Ghana, UNESCO-IUCr-PANalytical OpenLab Ghana.
119. Settembre 2014. Cristallografia e beni culturali: nuove tecniche per antiche tecnologie. Como, San Pietro in Atrio, mostra CRISTALLI!
120. Ottobre 2014. Da dove proviene? Come ricostruire le rotte commerciali dell'antichità. Torino, Università degli Studi e Fondazione Fondo Ricerca e Talenti.
121. Novembre 2014. The application of materials science to archaeometry and conservation science. London, Italian Institute of Culture, Workshop "Cultural heritage".
122. November 2014. Short course on "Mineralogy of historical and industrial binders", Salzburg, Department of Materials Science and Physics. Erasmus plus exchange program.
123. November 2014. Analisi dei materiali: nuove tecniche, antiche tecnologie. Rovereto, Accademia Roveretana degli Agiati e Museo Civico di Rovereto, Giornata di Studio "Lo scavo archeometrico – Scienza e tecnologia applicate allo scavo archeologico".
124. December 2014. Copper smelting slags in the Italian South-Eastern Alps (Trentino-Alto Adige) – recent results. Institut für Archäologie, University of Zürich, Workshop on "Prehistoric copper smelting slags in the Alps".
125. January 2014. Fundamentals of crystallography and diffraction. Powder diffraction and applications. Full profile refinement. University of Bilkent, Ankara, Turkey. UNESCO-IUCr-PANalytical OpenLab Turkey
126. Febbraio 2015. Physical properties and chemical reactivity at the nanoscale: the role of surfaces. Scuola GNM "La fisica dei minerali: implicazioni geologiche e applicazioni pratiche", Bressanone.
127. Febbraio 2015. Ötzi: l'uomo di ghiaccio delle Alpi. Scuola Elementare Galileo Galilei, Cadoneghe PD.
128. Aprile 2015. Mineralogia e metallografia del distretto minerario Agno-Leogra. Giornata di Studio sul tema "Paesaggi Minerari – Ricerche sulla dorsale Agno-Leogra", Padova.
129. September 2015. Archaeometry@UNIPD: recent results on mortar dating and protohistoric glass from Northern Italy. Weizmann Institute of Science, Rehovot, Israel.
130. February 2016. Arte, archeologia, scienza: le analisi scientifiche nei beni culturali. Rotary Club Abano-Montegrotto Terme.
131. April 2016. Mineralogy and archaeometry: fatal attraction. Institut für Geowissenschaften und Geographie, Martin-Luther Universität Halle-Wittenberg, Halle, Germany.
132. June 2016. Direct imaging of cement hydration by synchrotron diffraction tomography. Simposio "La luce di sincrotrone nella chimica e nelle scienze della vita: realtà e prospettive", Padova, Dipartimento di Scienze Chimiche.
133. Marzo 2017. Archeometria: La materialità della storia umana. "Scienza e tecnica nell'Antropocene – Rischi e benefici" Accademia Nazionale delle Scienze detta dei XL, Orto Botanico, Università di Padova.

134. Aprile 2017. A provenance study of the copper axe of the Similaun Iceman. Seminario di Studio "Similaun at Padua", Corso di Dottorato in Storia, critica e conservazione dei Beni Culturali, DBC, Università di Padova.
135. Maggio 2017. Anche i muri parlano: Breve storia dei leganti in architettura. Prolusione inaugurale. Accademia nazionale delle Scienze detta dei XL, Roma.
136. Giugno 2017. Approccio multidisciplinare allo studio dei reperti scheletrici di Al Khiday. "La necropoli tardo-Pleistocenica e Olocenica di Al-Khiday, Sudan Centrale". Orto Botanico, Università di Padova.
137. Luglio 2017. La metallurgia nell'Età del Rame. "Notti dell'Archeologia". Museo Archeologico, Massa Marittima.
138. September 2017. Synchrotron radiation in the Earth Sciences. XIV SILS School on Synchrotron Radiation: Fundamentals, Methods and Applications. Muggia, Trieste.
139. Ottobre 2017. Strumenti, armi, monete: I metalli nella storia umana. TeRRRA: Risorse, Rischi, Rispetto. QuarantaScienza Scienziati on-line. Accademia Nazionale delle Scienze XL, Roma
140. Marzo 2018. Analisi di metalli antichi: tecniche a confronto. Dipartimento di Lettere e Filosofia, Università di Trento.
141. Aprile 2018. Autentico/falso: percezione, analisi, interpretazione. Laboratorio di Archeologia, Università di Padova.
142. July 2018. The contribution of geosciences to cultural heritage investigations. Materials Research Laboratory, Univerza v Novi Gorici, Ajdovščina, Slovenia.
143. August 2018. Technical advances in Cultural heritage analysis: potential and needs. Istituto Italiano di Cultura, Sydney. Round Table "Science and technology for cultural heritage".
144. August 2018. Crystallography and cultural heritage: science and passion. Istituto Italiano di Cultura, Sydney.
145. August 2018. Crystallography and cultural heritage: science and passion. Istituto Italiano di Cultura, Melbourne.
146. September 2018. Fundamentals of crystallography and diffraction. Powder diffraction and applications. Full profile refinement. University of Bilkent, Ankara, Turkey. UNESCO-IUCr-PANalytical OpenLab Turkey.
147. November 2018. Ancient metals provenancing I: State of the art. Université Paris 1 - Panthéon-Sorbonne, UFR d'Histoire de l'Art et d'Archéologie, Paris, France.
148. November 2018. Ancient metals provenancing II: Case studies. Université Paris 1 - Panthéon-Sorbonne, UFR d'Histoire de l'Art et d'Archéologie, Paris, France.
149. Dicembre 2018. Materials science for the cultural heritage. VI Giornata di Formazione "Geologia e geofisica applicate ai beni culturali". Rovereto, Fondazione Museo Civico Rovereto.
150. January 2019. Openlab: powder diffraction, theory and hands on. Accra, Ghana, UNESCO-IUCr-Bruker OpenLab Ghana.
151. June 2019. Il blue dal lapislazzuli a Klein. Giornata di Studi "Il colore nella scienza". Dipartimento di Beni Culturali, Università di Padova.
152. July 2019. Da San Carlo al Similaun. Le vie del metallo nell'Età del Rame. Museo Archeologico del Territorio di Populonia e Museo del Castello di Piombino, Seminari di Archeologia.
153. September 2019. Synchrotron radiation in the Earth Sciences. XV SILS School on Synchrotron Radiation: Fundamentals, Methods and Applications. Muggia, Trieste.
154. November 2019. Futuri materiali da costruzione: costruire il futuro. Seminario nell'ambito di "UniPadova Incontra". IIS "Atestino", Este.
155. December 2019. Studi sulla circolazione del rame ai tempi di Ötzi. Museo Archeologico dell'Alto Adige. Bolzano.
156. Gennaio 2020. I geopolimeri nelle costruzioni. Convegno scientifico divulgativo. Teatro Comunale Eschilo, Gela.
157. Febbraio 2020. Il contributo dell'analisi sui materiali alla ricerca archeologica. Scuola di alta formazione su "Analisi sui materiali per l'archeologia e i beni culturali". Università di Trento, Centro Alti Studi Umanistici.
158. Febbraio 2020. Futuri materiali da costruzione: costruire il futuro. Seminario nell'ambito di "UniPadova Incontra". Liceo Artistico Statale "Pietro Selvatico", Padova.
159. Febbraio 2020. Mineralogia, Cristallografia, Arte ed Archeologia: scienza e passione. Seminario nell'ambito di "UniPadova Incontra". IIS "Rolando da Piazzola", Piazzola sul Brenta.
160. Novembre 2020. Il rame alpino: lo sfruttamento dalla preistoria ai tempi recenti. Giornata "Raw Materials University Day", Università di Trento.
161. Dicembre 2020. La mineralogia ed i beni culturali: attrazione fatale. Accademia Nazionale dei Lincei, Roma.
162. Febbraio 2021. Mineralogia, Cristallografia, Arte ed Archeologia: scienza e passione. Seminario nell'ambito di "UniPadova Incontra". Liceo Classico Majorana Corner, Mirano.
163. Settembre 2021. The levers of SCM: secondary nucleation, alkali activation and pozzolanic reaction. Internal R&D Workshop on low carbon concrete admixtures. Mapei Spa, Milano.
164. Ottobre 2021. Meccanismi insoliti di colorazione blu in materiali artistici e archeologici: aspetti cristallografici. Workshop "Nuove metodologie fisiche e chimiche per la conservazione e il restauro dei beni culturali". Accademia Nazionale delle Scienze detta dei XL, Roma.
165. Novembre 2021. Introduction to natural and synthetic zeolites. Course on "Functional ceramics". Politecnico di Milano.
166. Maggio 2022. Tecnologia, stile e isotopi del piombo: un leone stilta in cerca di identità. Workshop "Lo zoo di bronzo. Creature, creazioni, ri-creazioni di età medioevale". Padova, DBC.

167. June 2022. Metals: waste and recovery. EMU School 2022 on "Minerals and waste recovery: An Anthropocene tale". Bardonecchia.
168. Sept 2022. Hydraulic mortars in Rome and Caesarea. Workshop "Italy and the land of Israel: routes, trade, connections. Crusader Citadel, Acres-Akko, Israel.
169. January 2023. Cristallografia per i beni culturali: recenti sviluppi. Roma, CNR-ISPC. Colloquium series
170. May 2023. Lime mortars history and their current relevance. Univ. Minho, SUBLIME EU Network.
171. June 2023. Databases for lead isotope analysis: State of the art and perspectives. Univ. di Trento, AMARCH2023 Workshop "Analisi sui materiali per l'ARChologia e i beni culturali." "The role of isotopic analyses"
172. June 2023. Imaging in advanced geo-research: from optical microscopy to 4-D ptychography. Workshop Zeiss, Università di Bologna, "Workshop: Microscopia automatizzata e correlativa nelle geoscienze"
173. November 2023. Minerals and waste. Waste generation in metallurgical process and its environmental recycling routes. China South University, Changsha, Cina.
174. Gennaio 2023. Futuri materiali da costruzione: costruire il futuro. Seminario nell'ambito di "UniPadova Incontra". Scuola Media Don Ferdinando Bettini, Istituto Romano Bruni, Padova.

1. ARTIOLI G., PLUTH J.J., SMITH J.V.: Synthetic phosphorus-substituted analcime with ordered Al and Si,P. 6th International Zeolite Conference, Reno, Nevada, July 1983.
2. SMITH J.V., PLUTH J.J., ARTIOLI G., KVICK Å., ROSS F.K.: Water molecules and cations in fibrous zeolites. 96th Annual Meeting of the Geological Society of America, Indianapolis, Indiana, November 1983.
3. KVICK Å., STÅHL K., ARTIOLI G., PLUTH J.J., SMITH J.V.: Water molecules in natural zeolites studied by neutron diffraction. 13th Congress of the International Union of Crystallography, Hamburg, FRG, August 1984.
4. ARTIOLI G., SMITH J.V., KVICK Å., PLUTH J.J., STÅHL K.: Neutron diffraction studies of the hydrogen bonding and water molecules in zeolites. International Symposium on Zeolites, Portoroz, Yugoslavia, September 1984.
5. SMITH J.V., ARTIOLI G., KVICK Å.: Low albite: neutron diffraction study of crystal structure at 13 K. Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 1985.
6. ARTIOLI G., KVICK Å., SMITH J.V.: Hydrogen bonding systems in zeolites studied by neutron diffraction. 43rd Annual Pittsburgh Diffraction Conference, Symposium on Hydrogen Bonding, Pittsburgh, Pennsylvania, November 1985.
7. SMYTH J.R., ARTIOLI G., SMITH J.V., KVICK Å.: Crystal structure of coesite at 15 K from neutron diffraction data. Fall Meeting of the American Geophysical Union, S. Francisco, California, December 1985.
8. ARTIOLI G., SMITH J.V., PLUTH J.J., KVICK Å., RINALDI R.: Crystal structures of zeolites determined by neutron diffraction (natrolite, scolecite, edingtonite, thomsonite, gismondine, yugawaralite, brewsterite, leonhardite). Fall Meeting of the American Geophysical Union, S. Francisco, California, December 1985.
9. SMYTH J.R., SMITH J.V., ARTIOLI G., RICHARDSON J.W., KVICK Å.: Crystal structure of coesite at 15 and 298 K from single crystal neutron and x-ray diffraction: test of bonding models. 99th Annual Meeting of the Geological Society of America, San Antonio, Texas, November 1986.
10. ARTIOLI G., KVICK Å.: Synchrotron radiation powder diffraction study of the zeolite perialite. European Union of Geology, EUG V, Strasbourg, France, Mars 1989; Terra abstracts, vol.1, n.1, SY17-03, 149, 1989. [invited]
11. BIGI S., ARTIOLI G.: Caratterizzazione di alcune sequenze di stacking in polipoli complessi nelle miche. Congresso primaverile della Società Italiana di Mineralogia e Petrologia, Padova, Giugno 1989; Plinius 1, 39, 1989.
12. ARTIOLI G., BRIGATTI M.F.: Single crystal study of an igneous biotite: comparison of data collection techniques. 11th European Crystallographic Meeting, Moscow, USSR, August 1989.
13. ARTIOLI G., TORRES SALVADOR M.R.: Powder diffraction structure analysis of natural and cation exchanged gonnardites. 15th General Meeting of the International Mineralogical Association, Beijing, China, July 1990.
14. TORRES SALVADOR M.R., ARTIOLI G.: Refinamiento de dos estructuras de compuestos organometalicos por el metodo de Rietveld, partiendo de compuestos isoestructurales. Comparacion de los resultados obtenidos con los datos de monocristal. XI Congreso del Grupo Iberoamericano de Cristalografía, Merida, Venezuela, Septiembre 1990.
15. ARTIOLI G., TORRES SALVADOR M.R.: Characterization of the natural zeolite gonnardite. Structure analysis of natural and cation exchanged species by the Rietveld method. 1st European Powder Diffraction Conference, EPDIC-1, Munich, Germany, March 1991.
16. MARAS A., BALLIRANO P., BURRAGATO F., PARODI G.C., ARTIOLI G., ROUX J.: Infrared and Rietveld structure analysis of a synthetic sodalite. European Union of Geology, EUG VI, Strasbourg, France, Mars 1991; Terra abstracts, vol.3, n.1, OSIX-15, 405, 1991.
17. ARTIOLI G., CAGOSSI G., ALBERTI G.: Quantitative determination of zeolite content of rocks by Rietveld analysis of X-ray powder diffraction data. ZEOLITES'91, 3rd International Conference on the occurrence, properties and utilization of natural zeolites, Havana, Cuba, April 1991; Abst. vol., p. 104-105, 1991.
18. GREGORKIEWITZ M., ARTIOLI G., BESSIERE M., ELKAIM E.: Single crystal microdiffraction of the ionic conductor KAlSiO₄-H. Synchrotron Radiation in Crystallography, Trieste, Settembre 1991; Abst.vol., p. 36, 1991.
19. ARTIOLI G., ALBERTI G., CAGOSSI G., BELLOTTO M.: Quantitative determination of crystalline and amorphous components in clinoptilolite-rich rocks by Rietveld analysis of X-ray diffraction profiles. 1 Convegno Italiano di Scienza e Tecnologia delle Zeoliti, L'Aquila, Settembre 1991.
20. VEZZALINI G., ARTIOLI G., QUARTIERI S.: The crystal chemistry of cowlesites. 1 Convegno Italiano di Scienza e Tecnologia delle Zeoliti, L'Aquila, Settembre 1991.
21. ARTIOLI G., STÅHL K.: Neutron and X-ray powder diffraction study of the fully hydrated natural zeolite laumontite. Convegno Congiunto Associazione Italiana di Cristallografia - Associazione Italiana di Crescita dei Cristalli, Parma, Ottobre 1991; Abst. vol., p. 85-86, 1991.
22. ARTIOLI G., RINALDI R., STÅHL K., ZANAZZI P.F.: Neutron single crystal diffraction study of two natural beryls. Convegno Congiunto Associazione Italiana di Cristallografia - Associazione Italiana di Crescita dei Cristalli, Parma, Ottobre 1991; Abst. vol., p. 87-88, 1991.
23. QUARTIERI S., ANTONIOLI G., ARTIOLI G., LOTTICI P.P.: Studio di assorbimento di raggi-X alla soglia K del Fe su granati dell'lvrea-Verbano. Convegno Congiunto Associazione Italiana di

- Cristallografia - Associazione Italiana di Crescita dei Cristalli, Parma, Ottobre 1991; Abst. vol., p. 95-96, 1991.
24. ARTIOLI G., RINALDI R., STÅHL K., ZANAZZI P.F.: Single crystal neutron diffraction structure refinements of two natural beryls. Congresso autunnale della Società Italiana di Mineralogia e Petrologia, Ferrara, Ottobre 1991; Plinius 6, 103-104, 1991.
 25. ARTIOLI G., GEIGER C.A.: Fe in pumpellyite-group minerals: a combined diffraction and spectroscopy study. Congresso autunnale della Società Italiana di Mineralogia e Petrologia, Ferrara, Ottobre 1991; Plinius 6, 79, 1991.
 26. QUARTIERI S., ANTONIOLI G., ARTIOLI G., LOTTICI P.P.: Stato di valenza e coordinazione del Fe in granati dell'Ivrea-Verbanò: indagine EXAFS e XANES. Congresso autunnale della Società Italiana di Mineralogia e Petrologia, Ferrara, Ottobre 1991; Plinius 6, 77-78, 1991.
 27. BELLOTTO M., ARTIOLI G.: Quantitative evaluation of crystalline and amorphous components in mixtures by Rietveld analysis of X-ray powder diffraction profiles. International Conference on "Accuracy in Powder Diffraction II", Gaithersburg, Maryland, May 1992; Abst. vol., p. 19, 1992.
 28. GUALTIERI A., ARTIOLI G., BELLOTTO M.: Powder pattern simulation of disordered layer minerals: application to natural kaolinites. Convegno Congiunto Associazione Italiana di Cristallografia - Associazione Italiana di Crescita dei Cristalli, L'Aquila, Ottobre 1992.
 29. QUARTIERI S., ARTIOLI G., DERIU A., LOTTICI P.P., ANTONIOLI G.: ^{57}Fe -Mössbauer investigation on garnets from Ivrea-Verbanò Zone. Convegno Congiunto Associazione Italiana di Cristallografia - Associazione Italiana di Crescita dei Cristalli, L'Aquila, Ottobre 1992.
 30. BELLOTTO M., GUALTIERI A., ARTIOLI G., CLARK S.M.: Phase transformation in natural kaolinites. ACA Annual Meeting, Albuquerque, New Mexico, May 1993.
 31. QUARTIERI S., ANTONIOLI G., ARTIOLI G., LOTTICI P.P.: XANES study of titanium coordination in natural diopside pyroxenes. European Union of Geology, EUG VII, Strasbourg, France, Avril 1993; Terra abstracts, vol.5, n.1, D03-14, 364, 1993.
 32. GUALTIERI A., BELLOTTO M., ARTIOLI G., PAVESE A.: Structural simulations and electrostatic energy computation of disordered natural kaolinites. European Union of Geology, EUG VII, Strasbourg, France, Avril 1993; Terra abstracts, vol.5, n.1, D13-21, 489-490, 1993.
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 303. ANGELINI I., ARTIOLI G.: Microsampling vs Non-invasive analyses in archaeometallurgy: analytical strategies and examples from the Italian Copper and Bronze Age, XX International Materials Research Congress, 14-19 August 2011, Cancún, Mexico. Program Vol. p. 91, CD Abst. Vol. S8-21. **[Invited talk]**
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 310. PARISATTO M., NESTOLA F., ARTIOLI G., NIMIS P., HARRIS J.W., KOPYLOVA M., PEARSON G.D.: 3D investigation of inclusions in diamonds using X-ray micro-tomography. EGU General Assembly 2012, Vienna, Austria, 22-27 Aprile 2012. Geophysical Research Abstracts Vol. 14, EGU2012-13968, 2012.

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315. ADDIS A., ANGELINI I., ARTIOLI G.: Final Bronze Age copper slags from Transaqua and Segonzano (Trentino, Italy). ISA2012, 39th International Symposium on Archaeometry, Leuven, Belgium, 28 May-1 June 2012. Abst Vol. Poster M1, p. 193-194.
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319. ARTIOLI G.: Archeometallurgy: the contribution of mineralogy. XXXII Reunión de la Sociedad Española de Mineralogía. International Seminar on "Archaeometry and cultural heritage: the contribution of mineralogy", Bilbao, 27 de Junio 2012. Seminarios de la SEM, Vol. 09, pp. 65-78. **[invited]**
320. ARTIOLI G.: High energy X-ray diffraction: old and new tools. 1st Gordon Research Conference on "Scientific methods in cultural heritage research", West Dover, Vermont, 29 July-3 August 2012. **[invited]**
321. ANGELINI I., CUPITO' M., ARTIOLI G., LEONARDI G., MOLIN G.M.: Fondo Paviani (Northern Italy): A possible glass working center of the Bronze Age. AIHV 19, 19th Congress of the International Association for the History of Glass, Piran, Slovenia, 17-21 September 2012. Abstract Book, p. 104-105.
322. ADDIS A., ANGELINI I., ARTIOLI G., NIMIS P., OMENETTO P., ROSTAND P.: I giacimenti in rame delle Alpi occidentali: valutazione dei depositi e dello sfruttamento preistorico. XIII^{ème} Colloque sur les Alpes dans l'Antiquité, Brusson, Vallée d'Aoste, 12-14 Octobre 2012. Abstract Volume, p. 4. **[invited]**
323. ARTIOLI G., VOLTOLINI M., VALENTINI L., DALCONI M.C., PARISATTO M., FERRARI G., RUSSO V.: Imaging of nanoseeded nucleation in cement by diffraction tomography. Nanotech ITALY 2012, Venice, 21-23 November 2012. Abstract Volume, p. 76-77.
324. SECCO M., ARTIOLI G., MAZZOLI C.: Characterization studies on cement conglomerates from historic reinforced concrete structures. AMMC Conference on Ancient and Modern Mortars, Florence, 7-8 February 2013. Book of Abstracts, p. 7.
325. ARTIOLI G., NESTOLA F., PARISATTO M.: X-ray micro-tomographic visualization of inclusions in diamonds. SMEC 2013, Conference on the Study of Matter at Extreme Conditions, Miami – Western Caribbean, 23-30 March 2013. Abst. Vol., p. 54.
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328. ARTIOLI G.: Metodi scientifici e patrimonio culturale: problemi, tendenze e prospettive. Giornata di studio "Il futuro del nostro passato: tecnologie d'avanguardia per la conservazione e il restauro- Esperienze a confronto", Budapest, Istituto Italiano di Cultura, 15 maggio 2013. **[invited]**
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332. ARTIOLI G., ANGELINI I.: Tracciabilità geochimica dei metalli. Workshop "Un tesoro in analisi", Alessandria, 11 luglio 2013. **[invited]**

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335. VALENTINI L., ARTIOLI G.: RieCalc: a tool for the quantitative phase analysis of hydrating cement pastes. MISSCA 2013, Meeting of the Italian, Spanish and Swiss Crystallographic Associations, Como, 9-12 September 2013. Conf. Abst MS8-PP4, p. 138.
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350. BUSNARDO E., SECCO M., SALBEGO G., TOALDO M., LAMPO C., ARTIOLI G., FLORIS M.: Analysis of factors inducing different type of landslide in apparently similar environmental contexts. EGU General Assembly 2014, Vienna, Austria, 27 April-2 May 2014. Geophysical Research Abstracts Vol. 16, EGU2014-10765-6, 2014.
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352. ARTIOLI G.: Glass through history: properties and characterization. 5th Meeting on X-ray and other techniques investigations of the objects of cultural heritage. Krakow, Poland, 14-17 May 2014. Abst. Vol. 59-60. **[invited]**
353. ARTIOLI G.: Diagnostics in art and archaeology: concepts and case studies. GABEC-GNM International School on "Innovative methodologies for characterization, diagnosis and conservation of the cultural heritage". Catania-Siracusa, July 1-4 2014. **[invited]**
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364. ANGELINI I., ARTIOLI G., NIMIS P.: Alpine Archaeocopper Project (AAcP) database: Development and applications. Workshop: "Moving metals between Europe and Scandinavia: provenance issues and the interpretation of the Scandinavian data-sets", Gothenburg (Sweden), November 19-20, 2014. **[invited]**
365. ARTIOLI G.: OpenLabs Ghana and Turkey. "Crystallography for the next generation: the legacy of IYCr", Rabat, Morocco, 22-24 April 2015 **[keynote talk]**
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373. ARTIOLI G.: Symmetry, light, materials: the crystallography of cultural heritage. ECM-29, 29th European Crystallographic Meeting, 23-28 August 2015, Rovinj, Croatia. MS50-02, Abst. Book s182, Acta Crystall. A71, s182, 2015. **[invited]**
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375. ARTIOLI G.: Geosciences and the cultural heritage: the time line of human activities. Congresso congiunto SIMP-SGI-SoGel-AIV, "Il pianeta dinamico", Firenze, 2-4 settembre 2015. Sessione S15 "The geosciences for Cultural Heritage and Archeometry: consolidated and innovative approaches", Abstract book, Rend. Online Soc. Geol. It., Suppl. n. 2 al Vol. 35 (2015), p. 324. **[keynote talk]**
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391. ARTIOLI G.: Introductory lecture. 1st CrysAC Workshop 'Cultural heritage authentication and forensic science', Krakow, Poland, 18 May 2016.
392. ARTIOLI G.: Experimental evidence of the recipes of Vitruvius and Pliny: the art of mortars. 6th Meeting 'X-ray and other techniques in investigations of the objects of cultural heritage'. Krakow, Poland, 19-21 May 2016. [invited]
393. ARTIOLI G., SECCO M.: Modern and ancient masonry: nature and role of the binder. IB2MAC 2016 – 16th International Brick and Block Masonry Conference, Padova, 26-30 June 2016. Volume proceedings, CRC Press/Balkema, pp. 3-10, 2016. [keynote talk]
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398. ARTIOLI G.: Prehistoric copper production in the Southern Italian Alps: research updates. International Workshop "Alpine Copper II", Innsbruck, 21-25 September 2016. [invited]
399. ARTIOLI G.: Recent trends in the investigation of complex natural and inorganic materials. PCCr1 1st Pan African Conference on Crystallography, Dschang, Cameroon, 6-10 October 2016. Abstr. Book, pp 100. [keynote]

400. DILARIA S., ADDIS A., SECCO M., BONETTO J., ARTIOLI G., SALVADORI M.: Vitruvian recipes in Roman Aquileia (Italy): the floor bedding mortars of Bestie Ferite and Tito Macro domus. HMC2016, 4th Historic Mortars Conference, Santorini, Greece, 10-12 October 2016. Proceedings, Pp. 145-154.
401. PASIAN C., SECCO M., PIQUÉ F., RICKERBY S., ARTIOLI G., CATHER S.: Performance of grout with reduced water content: the importance of porosity and related properties. HMC2016, 4th Historic Mortars Conference, Santorini, Greece, 10-12 October 2016. Proceedings, Pp. 639-646.
402. HAYEN R., VAN STRYDONCK M., BOARETTO E., LINDROOS A., HEINEMEIER J., RINGBOM Å, HUEGLIN S., MICHALSKA D., HAJDAS I., MARZAIOLI F., MASPERO F., GALLI A., ARTIOLI G., MOREAU C., GUIBERT P., CAROSELLI M.: Analysis and characterization of historic mortars for absolute dating. HMC2016, 4th Historic Mortars Conference, Santorini, Greece, 10-12 October 2016. Proceedings, Pp. 656-664.
403. ADDIS A., SECCO M., PRETO N., MARZAIOLI F., PASSARIELLO I., BROGIOLO G.P., CHAVARRIA ARNAU A., ARTIOLI G., TERRASI F.: New strategies for radiocarbon dating of mortars: Multi-step purification of the lime binder. HMC2016, 4th Historic Mortars Conference, Santorini, Greece, 10-12 October 2016. Proceedings, Pp. 665-672.
404. FERRARI G., RUSSO V., PASSALACQUA D., ARTIOLI G., VALENTINI L., DALCONI M.C.: New silicate hydrate as concrete permeability reducing admixture. 2nd ICCCM - International Conference on the Chemistry of Construction Materials. Munich, Germany, 10-12 October 2016. GDC Monographie, Bd. 50, pp. 59-62.
405. ARTIOLI G.: Ancient mortars and binders: Can the walls speak? 2nd International Conference, Art&Archaeology2016, Jerusalem, Israel, 11-14 December 2016. **[invited plenary]**
406. CONTESSI S., GIROTTO P., FERRARI G., SECCO M., ARTIOLI G.: Influence of a fly ash-based binder on the solidification/stabilization performance of heavy metals contamination in soil. Giornate di Studio sui Geopolimeri – IX Ed. "Geopolimeri e Compositi", Napoli, 26-27 Gennaio 2017. Abstr. Vol., O15.
407. NATALI M., DALCONI M.C., GARBIN E., GRAZZI F., CELLI M., DEL ROSSO L., ARTIOLI G., TAMBURINI S.: Boron mineral-geopolymer composites for neutron shielding. Giornate di Studio sui Geopolimeri – IX Ed. "Geopolimeri e Compositi", Napoli, 26-27 Gennaio 2017. Abstr. Vol., P10.
408. ARTIOLI G.: Authentication and the perception of fakes. Technology and interpretation. International Winter School on "Anthropology of forgery", Padova, Vicenza and Venezia, 13-17 February 2017. **[invited]**
409. ARTIOLI G.: The landscapes of ancient metallurgy. International Open Workshop "Socio-environmental dynamics over the last 12,000 years: The creation of landscapes V". Graduate School at Kiel University, 20-24 March 2017. Abst. Vol. Pp. 45. **[Invited]**
410. VALENTINI L., DALCONI M.C., ARTIOLI G.: Advanced methods for assessing the nucleation and growth kinetics and microstructural development of conventional and alternative cementitious binders. 1st International Conference on Construction Materials for Sustainable Future (CoMS 2017). Zadar, Croatia, 19-21 April 2017.
411. DILARIA S., SEBASTIANI L., SALVADORI M., SECCO M., ADDIS A., ARTIOLI G.: Pigments and their tectorium: an integrated approach for the study of wall painting fragments from domestic contexts in Roman Aquileia. Workshop "La peinture murale antique – Méthodes et apports d'une approche technique". Louvain-la-Neuve, 21 Avril 2017. Abst. Vol. Pp. 14.
412. ADDIS A., SECCO M., ARTIOLI G.: I materiali leganti della cappella degli scrovegni e dell'Arena: Analisi e datazioni. Workshop "Metodologie integrate per lo studio degli edifici storici affrescati: Il caso della Cappella degli Scrovegni a Padova. Padova, 16-17 Maggio 2017. **[invited]**
413. REINER L., GRAVES K., SECCO M., ARTIOLI G.: Confusion of yellows. 45th AIC Annual Meeting, Chicago, IL, May 28 - June 1, 2017.
414. ARTIOLI G., SECCO M., ANGELINI I., REINER L., GRAVES K.: Roman pigments from Pompeii and Herculaneum: Crystallographic notes on the yellow to red color change. 2nd CrysAC Workshop, Brno, Czech Republic, 31 May 2017. Abst. Vol. Pp. 14. **[invited]**
415. SEBASTIANI L., DILARIA S., SALVADORI M., SECCO M., ADDIS A., ORIOLO F., RUBINICH M., ARTIOLI G.: Tectoria e pigmenti nella pittura tardoantica di Aquileia: uno studio archeometrico. I colloquio AIRPA, Aquileia, 17 giugno 2017.
416. ARTIOLI G.: Crystallography of ancient materials: beyond materiality. XLVI Annual Meeting of AIC. Perugia, 26-29 June 2017. 8KN1, Abst. Vol. Pp. 102. **[Keynote]**
417. HAJDAS I. et al.: 14C dating of mortar and importance of samples selection – reflections from the first Mortar Dating Inter-comparison Study (MODIS). AMS14 - 14th International Conference on Accelerator Mass Spectrometry. Ottawa, Canada, 14-18 August 2017. Abstr. Vol. A147.
418. ADDIS A., ARTIOLI G., MARZAIOLI F., PASSARIELLO I., PRETO N., SECCO M., TERRASI F.: Radiocarbon dating of mortars: the Cryo2Sonic method, state of the art after the first 7 years of experimental testing. AMS14 - 14th International Conference on Accelerator Mass Spectrometry. Ottawa, Canada, 14-18 August 2017. Abstr. Vol. A334.
419. ARTIOLI G., SECCO M., ANGELINI I., REINER L., GRAVES K.: Roman pigments from Pompeii and Herculaneum: which is which? IUCr 2017 - 24th Congress of the International Union of Crystallography. Hyderabad, India, 21-28 August 2017. Oral presentation, MS-114 Crystallography and cultural heritage. MS 114.O03.533
420. ANGELINI I., ARTIOLI I., VIDALE M., BETTINESCHI C.: Characterization of ancient Harappan faience bangles. IUCr 2017 - 24th Congress of the International Union of Crystallography. Hyderabad, India, 21-28 August 2017. Poster presentation, MS-114 Crystallography and cultural heritage. MS 114.P04.1688

421. BELLOTTO M., CONTESSI S., GARBIN E., DALCONI M.C., ARTIOLI G.: Chemical activation and rheological control of alkali-activated slag binders: Are we ready to give-up cement-driven chemistry? "Geosciences: a tool in a changing world", Congresso congiunto SIMP-SGI-AIV-SoGel. Pisa, Italy, 3-6 settembre 2017.
422. FERRARI G., RUSSO V., ARTIOLI G., VALENTINI L., DALCONI M.C.: Studio della struttura a scala nanometrica di formulati cementizi. XXVI Congresso della Società Chimica Italiana. Paestum, 10-14 Settembre 2017. Symposium "Formulazioni nell'industria chimica e farmaceutica. ESF IL05.
423. FERRARI G., RUSSO V., GAMBA M., ARTIOLI G., DALCONI M.C., VALENTINI L.: The fatal attraction between PCEs and swelling clays. 2nd International Conference on Polycarboxylate Superplasticizers, PCE 2017. Munich, Germany, 27-28 September 2017. Plank J. Lei L. (eds.), Conf. Proceedings, 251-261.
424. ARTIOLI G.: Old bones tell a story. The case of the Al Khiday cemetery, Sudan. 4th Meeting of the Coimbra Working Group Heritage. "Current trends in research and teaching with academic collections". Padova, Italy, 1 december 2017. **[invited]**
425. ANGELINI I., ARTIOLI G.: Giocando con gli Etruschi. Workshop "La ricerca in gioco – Il gioco nella ricerca. Metodi, strumenti, applicazioni". Padova, Italy, 12 december 2017. **[invited]**
426. ARTIOLI G.: The difficult chronology of the Al Khiday site, Sudan. Workshop on "Low energy ion beams in basic research and applications". Caserta, Italy, 15-16 December 2017. **[invited]**
427. CONTESSI S., CALGARO L., DALCONI M.C., FERRARI G., SECCO M., ARTIOLI G.: Land reclamation through recycling and stabilization of contaminated soil: the role of High Performance Solidification/Stabilization (HPSS) processes. EGU General Assembly 2018, Wien, 8-13 April 2018. Geophysical Research Abstracts, Vol. 20, EGU2018-6344. Poster.
428. CONTESSI S., BELLOTTO M., DALCONI M.C., ARTIOLI G.: Alkali-activated cements incorporating marble-cutting powders: towards low GHG emissions, sustainable binders implementing circular economy and by-product valorization. EGU General Assembly 2018, Wien, 8-13 April 2018. Geophysical Research Abstracts, Vol. 20, EGU2018-6303. Oral.
429. ARTIOLI G., SECCO M., ASSCHER Y., TAMBURINI S.: Pozzolanic behaviour of pre-Roman binders: a review. 3rd CrysAC Workshop. Mérida, Mexico, 20 May 2018. **[invited]**
430. SECCO M., ADDIS A., PREVIATO C., ARTIOLI G., BONETTO J.: Mineralogical clustering of the structural binders from the Sarno Bath complex in Pompeii: a tool to interpret construction techniques and relative chronologies. ISA 2018 – 42nd International Symposium on Archaeometry, Mérida, Mexico, 20-26 May 2018. Oral Abst. 113.
431. SECCO M., ARTIOLI G., ANGELINI I., ASSCHER Y., RAINER L., GRAVES K.: Roman ochre-based pigments between decorative technology and natural disasters. ISA 2018 – 42nd International Symposium on Archaeometry, Mérida, Mexico, 20-26 May 2018. Oral Abst. 176.
432. ANGELINI I., CANOVARO C., ADDIS A., ARTIOLI G.: The diffusion of early copper in Southern Europe: The picture based on new data from the Iceman axe and from Central Italy. ISA 2018 – 42nd International Symposium on Archaeometry, Mérida, Mexico, 20-26 May 2018. Oral Abst. 172.
433. ASSCHER Y., ANGELINI I., SECCO M., PARISATTO M., DEIANA R., ARTIOLI G.: Combining X-ray fluorescence and fiber optic reflectance spectroscopy with multispectral images to map pigments on-site in wall paintings in the Sarno baths of Pompeii. ISA 2018 – 42nd International Symposium on Archaeometry, Mérida, Mexico, 20-26 May 2018. Poster Abst. 67.
434. RICCI G., SECCO M., CANEVE L., ARTIOLI G.: Radiocarbon dating of historical mortars: Discrimination of geogenic and anthropogenic calcium carbonate by luminescence properties. ISA 2018 – 42nd International Symposium on Archaeometry, Mérida, Mexico, 20-26 May 2018. Poster Abst. 132.
435. DILARIA S., SECCO M., ADDIS A., BONETTO J., ARTIOLI G.: Technological transfer of hydraulic structures in Nora (Sardinia): what Romans learned by Carthaginians. ISA 2018 – 42nd International Symposium on Archaeometry, Mérida, Mexico, 20-26 May 2018. Poster Abst. 177.
436. ANGELINI I., ARTIOLI G., VENTURINO M.: Manufatti in argento e stagno da contesti dell'età del Bronzo di Alba (CN) - Silver and tin artifacts from the Bronze Age contexts of Alba (CN). V Incontro annuale di Preistoria e Protostoria "Materiali preziosi, semipreziosi e inconsueti nell'età del Rame e nell'età del Bronzo italiana. 29 Maggio 2018, Padova, Italy.
437. SECCO M., ASSCHER Y., TAMBURINI S., RICCI G., ARTIOLI G.: Crystallography of Ancient Hydraulic Mortars: a Combined Mineralogical-Spectroscopic Approach. 3rd Joint AIC-SILS Conference Rome, June 25-28 2018. MS10-O2, Abst. Vol. pp 90.
438. ANGELINI I., et al.: An additional analytical look to some Indus valley faience ornaments. EASAA 2018, 24th conference of the European Association for South Asian Archaeology and Art. Naples, 2-6 July 2018.
439. FERRARI G., ARTIOLI G., DALCONI M.C., VALENTINI L.: Nano-sized silicate hydrate for high strength and durable concrete. ISMANAMAM, 25th International Symposium on Metastable, Amorphous and Nanostructured Materials, Roma, 2-6 July 2018. Abst Vol. ID-83.
440. CONTESSI S., VALENTINI L., DALCONI M.C., BELLOTTO M.P., ARTIOLI G.: Low-carbon alkali-activated binders: a possible answer to the need of sustainability for the construction industry. IMA 2018, XXII Meeting of the International Mineralogical Association, Melbourne, Australia, 13-17 August 2018. Abst Vol. pp. 24.
441. ANGELINI I., CANOVARO C., NIMIS P., ARTIOLI G.: The Lead Isotope database of copper mineralizations developed at the Padua University: a tool for the investigation of complex provenance of archaeological metal finds. IMA 2018, XXII Meeting of the International Mineralogical Association, Melbourne, Australia, 13-17 August 2018. Abst Vol. pp. 68. **[keynote]**

442. SECCO M., ARTIOLI G., ADDIS A., PREVIATO C., BONETTO J.: Decoding ancient architecture through mineralogical analysis of ancient mortars: the case study of the Sarno Bath complex in Pompeii. IMA 2018, XXII Meeting of the International Mineralogical Association, Melbourne, Australia, 13-17 August 2018. Abst. Vol. pp. 69.
443. ARTIOLI G.: Technological and crystal-chemical aspects of nano-dispersions of hydrous silicates as cement additives. Medaglia LEVI address. GIC-DiChIn 2018, XX Congresso Nazionale della Divisione di Chimica Industriale, Milano, 2-5 settembre 2018. Abst. Vol. PM4. [award address]
444. ARTIOLI G.: Research collaboration between MAPEI and CIRCe: technical aspects and general considerations. Workshop "Relazioni fra ricerca pubblica e industriale nel mondo della chimica: cosa si aspettano le imprese e cosa le università". Federchimica, Milano, 6 settembre 2018. [invited]
445. CONTESSI S., CALGARO L., DALCONI M.C., SECCO M., FERRARI G., ARTIOLI G.: The High Performance Solidification/Stabilization process: a case study of Pb immobilization through recycling of contaminated soil. REMEDIATE Conference - Remediation and land management: research meets practice. Belfast, Ireland, 19-20 September 2018.
446. ANGELINI I., VIDALE M., ARTIOLI G., GUIDA G.: Nuove indagini archeometriche sui Bronzi di Riace: studi di provenienza del metallo. Convegno Internazionale "I bronzi di Riace e la bronzistica di V secolo a.C.", Museo Archeologico di Reggio Calabria – Università degli Studi di Messina, 25-26 Ottobre 2018.
447. ARTIOLI G., SECCO M., RICCI G., ADDIS A., MARZAIOLI F., TERRASI F., PASSARIELLO I.: Radiocarbon dating of complex mortars: can we assess the chances of successful dating? MoDIM 2018, Mortar Dating International Meeting, Bordeaux, France, 25-27 October 2018. Abst. Vol. pp. 6. [keynote]
448. ASSCHER Y., SECCO M., RICCI G., TAMBURINI S., ARTIOLI G.: Characterization of ancient mortars by combined XRD, NMR and FTIR techniques. MoDIM 2018, Mortar Dating International Meeting, Bordeaux, France, 25-27 October 2018. Abst. Vol. pp. 7.
449. RICCI G., SECCO M., ARTIOLI G., MARZAIOLI F., TERRASI F., PASSARIELLO I., BADINO F., SIMONETTI S., LAMPUGNANI P., GARANZINI F.: The castle of Cannero, Lake Maggiore, Italy: an insight into XIV-XVI century mortar techniques and their bearing on the radiocarbon dating of complex mortars. MoDIM 2018, Mortar Dating International Meeting, Bordeaux, France, 25-27 October 2018. Abst. Vol. pp. 16.
450. FERRARI G., GAMBA M., SURICO F., ARTIOLI G., DALCONI M.C., VALENTINI L.: The troubled relationship between PCEs and cement in the presence of swelling clays. 12th International Conference on Superplasticizers and Other Chemical Admixtures in Concrete, Beijing, China, 28-31 October 2018.
451. FERRARI G., RUSSO V., MAZZETTI M., ARTIOLI G., SECCO M., VALENTINI L.: Nanosized polysilicate admixture for sustainability in precast concrete industry. 14th ICACTs-2018, 14th International Conference on Recent Advances in Concrete Technology and Sustainability Issues, Beijing, China, 30 October – 2 November 2018.
452. FERRARI G., AL-MANASIR N., ARTIOLI G., CONTESSI S., PELLAY R., CALGARO L.: From HPC to HPSS: New frontiers in waste stabilization. 14th International Conference on Recent Advances in Concrete Technology and Sustainability Issues. Beijing, China, 30 October – 2 November 2018.
453. BELLOTTO M., CONTESSI S., DALCONI M.C., GARBIN E., ARTIOLI G.: Refractory binders from CAC activated GGBS. III European Geopolymer Network. Faenza, Italy, 30 November 2018. Abst. Vol. pp. 13.
454. ARTIOLI G.: An integrated diagnostic and valorization project for UNESCO sites: The case of the "Terme del Sarno", Pompeii. 3rd International Conference on Techniques, Measurements & Materials in Art & Archaeology, Jerusalem, Israel. Special session "Conserving UNESCO sites". 9-12 December 2018. Abst. Vol. pp. 33. [invited]
455. FERRARI G., BROCCHI A., ARTIOLI G., DALCONI M.C., VALENTINI L.: New activating filler for sustainable concrete. 3rd R.N. Raikar Memorial International conference and Gettu-Kodur International Symposium on Advances and Technology of Concrete, 14-15 December 2018, Mumbai, India.
456. ANGELINI I., BETTINESCHI C., VIDALE M., ARTIOLI G.: An archaeometric perspective on the technology and raw materials of faience production in Harappa and Mohenjo-Daro (Indus Valley, Pakistan). Conference and Workshop on History, Science & Technology of Ancient Indian Glass, IIT Gandhinagar, India, 21-25 January 2019. [invited]
457. ARTIOLI G.: Building the future - Sustainability of construction materials. 2nd Pan African Conference on Crystallography. Accra, Ghana, 28 January-2 February 2019. [keynote]
458. ARTIOLI G., ANGELINI I.: Authentication and the perception of fakes. Technology and interpretation. International Winter School on "Anthropology of forgery", Padova, Vicenza and Castelfranco Veneto, 25 February-1 March 2019. [invited]
459. CONTESSI S., CALGARO L., DALCONI M.C., SECCO M., FERRARI G., ARTIOLI G.: Comparison of cement matrices for the solidification/stabilization of lead contaminated soils: mechanisms and performance. 5th International Workshop on 'Mechanisms and Modelling of Waste-Cement Interactions', Karlsruhe, Germany, 25-27 March 2019. Abst. Vol. pp. 21.
460. ARTIOLI G., ANGELINI I., CANOVARO C., ROBOTTI S., RAMOND P., CAMPANA N., COSTA S., GAVAGNIN S., CHIARENZA N., ALESSI D.: I percorsi del metallo. Dati archeometrici e territorio a confronto: l'esempio di quattro asce in bronzo dal territorio ligure. Archeofest 2019 - Metallurgia, Storie di Artigiani Metalli e Tecniche, Roma Museo delle Civiltà, 5-7 Aprile 2019. Abst. Vol. pp. 11.
461. CANOVARO C., ARTIOLI G., ANGELINI I.: Provenienza dei metalli: metodologie e applicazioni basate sull'analisi degli isotopi del Pb. Archeofest 2019 - Metallurgia, Storie di Artigiani Metalli e Tecniche, Roma Museo delle Civiltà, 5-7 Aprile 2019. Abst. Vol. pp. 12. [invited]

462. ANGELINI I., MIGLIAVACCA M., ARTIOLI G., CANOVARO C.: Metalli, artigiani e tecniche in viaggio: primi risultati del Progetto Agno-Leogra (Prealpi venete, provincia di Vicenza). Archeofest 2019 - Metallurgica, Storie di Artigiani Metalli e Tecniche, Roma Museo delle Civiltà, 5-7 Aprile 2019. Abst. Vol. pp. 15.
463. ARTIOLI G., ANGELINI I., CANOVARO C., GRUPPO ARCA: Il sito metallurgico di Le Lope (Gosaldo, Belluno): estrarre rame all'epoca di Agricola. Archeofest 2019 - Metallurgica, Storie di Artigiani Metalli e Tecniche, Roma Museo delle Civiltà, 5-7 Aprile 2019. Abst. Vol. pp. 20.
464. FONDRIEST M., MECKLENBURGH J., PASSELEGUE F.X., ARTIOLI G., NESTOLA F., SPAGNUOLO E., DI TORO G.: Pseudotachylytes alteration and their loss from the geological record. EGU General Assembly 2019, Vienna, Austria, 7–12 April 2019. Session: GMPV3.2/TS3.7 Fluid-rock interaction: Kickstarter of metamorphic, deformation and geo-engineering processes. Abst. N. EGU2019-3934
465. MORARI F., BITTELLI M., ANDRENELLI C., SIMONETTI G., PELLEGRINI S., ARTIOLI G., PICCOLI I.: Comparing sedimentation methods and laser diffraction against an independent optical method. EGU General Assembly 2019, Vienna, Austria, 7–12 April 2019. Session: SSS12.1/BG2.28/NH3.26 Analytical methods and techniques in soil science. Abst. N. EGU2019-3552
466. ASSCHER Y., VAN ZUIDEN A., ELIMELECH H., SECCO M., RICCI G., ARTIOLI G.: Hydraulic mortars at Caesarea: underwater and on-land pozzolanic reactions through chemical and mineralogical examinations of Herodian, Roman, and Byzantine constructions. HMS 2019, 5th Historic Mortar Conference, Pamplona, Spain, 19-21 June 2019. Abstr. Vol. 77.
467. SECCO M., RICCI G., DILARIA S., GARBIN E., ARTIOLI G., ASSCHER Y., TAMBURINI S., PREVIATO C., BONETTO J.: Pozzolanicity beyond Vitruvius: insights into the exploitation of reactive silicates throughout the Roman world. HMS 2019, 5th Historic Mortar Conference, Pamplona, Spain, 19-21 June 2019. Abstr. Vol. 86.
468. DILARIA S., SECCO M., BONETTO J., ARTIOLI G.: Technical analysis on materials and characteristics of mortar-based compounds in Roman and Late Antique Aquileia (Udine, Italy). A preliminary report of the results. HMS 2019, 5th Historic Mortar Conference, Pamplona, Spain, 19-21 June 2019. Abstr. Vol. 93.
469. RICCI G., ARTIOLI G., SECCO M., ADDIS A., MARZAIOLI F., TERRASI F., PASSARIELLO I.: Characterization and Radiocarbon dating of complex mortars in Historic Buildings. HMS 2019, 5th Historic Mortar Conference, Pamplona, Spain, 19-21 June 2019. Abstr. Vol. 112.
470. ZUENA M., GARBIN E., ARTIOLI G., PANIZZA M., NODARI L., TOMASIN P.: Calcium alkoxide as an innovative product to consolidate cracks in cement mortars. HMS 2019, 5th Historic Mortar Conference, Pamplona, Spain, 19-21 June 2019. Abstr. Vol. 147.
471. PASIAN C., SECCO M., PIQUÉ F., ARTIOLI G., CATHER S.: Lime-pozzolan injection grouts with ovalbumin and ethanol added as water-reducing agents: Grout design and assessment of the mineralogical evolution. HMS 2019, 5th Historic Mortar Conference, Pamplona, Spain, 19-21 June 2019. Abstr. Vol. 163.
472. ARTIOLI G.: Modern mineralogy and ancient pots: The archaeometry of ceramics. MSA Centennial Symposium, Washington, DC, 20-21 June 2019. **[invited]**
473. CONTESSI S., BELLOTTO M., DALCONI M.C., CALGARO L., SECCO M., FERRARI G., ARTIOLI G.: Low-CO₂ binders for restoring a Pb-contaminated soil: improvements and drawbacks with respect to ordinary Portland cement. ILCCC-1, 1st International conference on Innovation in low-carbon cement and concrete technology, London, 24-26 June 2019.
474. FONDRIEST M., MECKLENBURGH J., PASSELEGUE F.X., ARTIOLI G., NESTOLA F., SPAGNUOLO E., DI TORO G.: Pseudotachylytes alteration and their loss from the geological record. GEOPROC 2019: Earthquake and Faulting mechanics, 7th International Conference on Coupled THMC Processes in Geosystems, Utrecht, The Netherlands, 3-5 July 2019. Abstr. Vol., 114-115.
475. FERRARI G., BROCCHI A., CASTIGLIONI F., ARTIOLI G., MASCIOCCHI N., GIACOBBE C., DALCONI M., VALENTINI L.: A new calcium aluminate phase in hydrated Portland cement. XXI Congresso SCI, Divisione Chimica Industriale, Salerno, 27 Agosto 2019. Abstr. Vol. 13.
476. CARRARA N., ADDIS A., ARTIOLI G., DAL SASSO G., DOMANICO A., SCAGGION C.: Preliminary report on tomographic and C-N stable isotopes analyses on pellagrous skulls. XXIII Conference AAI, "Anthropology: what are the next questions?", Padova, 4-6 September 2019. MiniTalks, Abst. Vol., 75.
477. ARTIOLI G., ANGELINI I., CANOVARO C.: Origine e diffusione del rame in Italia durante l'Eneolitico: sviluppi dell'interpretazione archeometallurgica da Chierici ad oggi. Convegni di Studi "Attualità di don Gaetano Chierici a duecenti anni dalla nascita". Reggio Emilia, Italia, 19-21 September 2019.
478. ARTIOLI G., DALCONI M.C., RICCI G., GIACOBBE C., MASCIOCCHI N., FERRARI G.: Synchrotron single crystal diffraction to solve the structure of a new phase in hydrating Portland cement. XV SILS School on Synchrotron Radiation: Fundamentals, Methods and Applications. Muggia, Trieste, Italy, 16-27 September 2019. Poster presentation.
479. VALENTINI L., MASCARIN L., DALCONI M.C., GARBIN E., FERRARI G., ARTIOLI G.: Performance and properties of alkali-activated blend of calcined laterite and waste marble powder. LC3 3rd International Conference on Calcined Clays for Sustainable Concrete. New Delhi, India, 15-17 October 2019. Proceedings, Vol. II, 85-91.
480. ARTIOLI G., LAROCHE M., CANOVARO C., ANGELINI I.: Le dépôt de haches de Centeilles (Siran, Hérault) et ses relations avec le district minier de Cabrières-Péret. "Paysages pour l'homme", Colloque international en hommage à Paul Ambert. Cabrières, 15-19 Octobre 2019. Actes du colloque, pp. 243-248, 2019. **[invited]**

481. CONTESSI S., ARTIOLI G.: Il complesso accertamento della pericolosità del rifiuto. Workshop "Problematiche aperte e criticità nell'omologazione trattamento e smaltimento dei rifiuti industriali", ECOMONDO, Rimini, 8 Novembre 2019. **[invited]**
482. FERRARI G., BRAVO A., BROCCHI A., CASTIGLIONI F., CELLA F., SALVIONI D., ARTIOLI G., DALCONI M.C., VALENTINI L.: Novel Hybrid Additive for Sustainable Concrete. GRC Gordon Research Conference on "Cutting-Edge Developments and Characterization of Cement-Based Materials". Ventura, California, 23-28 February 2020.
483. GARBIN E., MASCARIN L., DI SIPIO E., ARTIOLI G., URCHUEGUÍA J.F., MENDRINOS D., BERTERMANN D., VERCRUYSSSE J., PASQUALI R., BERNARDI A., GALGARO A.: Assessing grouting mix thermo-physical properties for shallow geothermal systems. EGU General Assembly 2020, Vienna, Austria, 3-8 May 2020. Session ERE2.8, D954, EGU2020-21015.
484. MASCARIN L., VALENTINI L., DALCONI M.C., GARBIN E., ARTIOLI G.: Role of alkanolamines in ordinary and alternative cement systems. EGU General Assembly 2020, Vienna, Austria, 3-8 May 2020. Session ERE5.1, D735, EGU2020-10013.
485. DOLFINI A., ANGELINI I., ARTIOLI G.: Metalwork exchange in early Italy: An interdisciplinary investigation. EAA 2020 Virtual, 26th Annual Meeting of the European Association of Archaeologists, Budapest, Hungary, 26-30 August 2020. Session #211 "Truly interdisciplinary science! Ceramic, metal, glass, and stone provenancing studies as tools to understand the archaeology of trade and exchange". Abst. #2609. Abst. Vol. n. 2, pag 163.
486. RODLER A., VERBEEMEN E., GODERIS S., BOLEA-FERNANDEZ E., ARTIOLI G., SØRENSEN L., FRAGNOLI P., LADSTAETTER P.: The provenance of cinnabar pigments from Roman Ephesus. EAA 2020 Virtual, 26th Annual Meeting of the European Association of Archaeologists, Budapest, Hungary, 26-30 August 2020. Session #211 "Truly interdisciplinary science! Ceramic, metal, glass, and stone provenancing studies as tools to understand the archaeology of trade and exchange". Abst. #2715. Abst Vol. n. 9 pag 166.
487. RODLER A., MATTHYS S., ARTIOLI G., BRØNS C., GODERIS S.: Investigating the provenance of Egyptian blue pigments in ancient Roman polychromy. EAA 2020 Virtual, 26th Annual Meeting of the European Association of Archaeologists, Budapest, Hungary, 26-30 August 2020. Session #211 "Truly interdisciplinary science! Ceramic, metal, glass, and stone provenancing studies as tools to understand the archaeology of trade and exchange". Abst. #2702. Abst Vol. n. 7 pag 237.
488. ANGELINI I., CANOVARO C., NIMIS P., ARTIOLI G.: The role of the South Eastern Alps in the copper metallurgy of the 3rd-2nd millennia BC. EAA 2020 Virtual, 26th Annual Meeting of the European Association of Archaeologists, Budapest, Hungary, 26-30 August 2020. Session #376 "Networks and mobility in the 3rd-2nd millennium BCE between the middle-Danube and the Adriatic area: new ideas and interdisciplinary approaches". Abst. #3580. Abst Vol. n. 1 pag 357. **[invited]**
489. ANGELINI I., CANOVARO C., NIMIS P., ARTIOLI G.: MineHeritage Project: Historical Mining – Tracing and learning from ancient materials and mining technology. EAA 2020, 26th Annual Meeting of the European Association of Archaeologists, Budapest, Hungary, 26-30 August 2020. Session #301 "Raw materials throughout millenniums". Abst. #3581. Abst Vol. n. a pag 525-526.
490. PEDROTTI A., ANGELINI I., ARTIOLI G., CANOVARO C., TECCHIATI U., OBERRAUCH H.: The Bell Beaker rock sanctuary Pigloner Kopf (South Tyrol, Italy). 22nd meeting "Archéologie et Gobelets", "The Bell Beaker Culture in All its Forms". 21-23 Janvier 2021, Genève, Suisse. Abst Vol. pag. 24-25.
491. DI SIPIO E., GARBIN E., FEDELE L., MENEGAZZO D., MASCARIN L., DALLA SANTA G., BOBBO S., ARTIOLI G., BERNARDI A., GALGARO A.: New borehole heat exchanger thermal enhanced grout formulations. EGU General Assembly 2021, Vienna, Austria, 19–30 April 2021. Abstract EGU21-8234 (doi.org/10.5194/egusphere-egu21-8234)
492. ARTIOLI G.: Applied sciences to CH: Challenges and issues from two ongoing projects on metals and mortars. Cultural Heritage 360 - Workshop 2: Arts and Science – Technology, 29-30 April 2021, London. **[invited keynote]**
493. TECCHIATI U., ANGELINI I., CANOVARO C., ARTIOLI G.: Metallurgy in the 3rd and 2nd millennium BC in South Tyrol and adjacent areas. Research and excavations of the Archaeological Heritage Office of the Autonomous Province of Bolzano-South Tyrol. Workshop "Alpenkupfer im Vinschgau", 14-15 May 2021, Vintschger Museum, Schludern, Bolzano, Italy. Abstr. Volume: GeoAlp Vol. 17 2020, Pp. 27-28.
494. BELLOTTO M., DALCONI M.C., ARTIOLI G.: On the formulation of reactive binders containing soluble borate compounds. ICCM2021, 11th ACI/RILEM International Conference on Cementitious Materials and Alternative Binders for Sustainable Concrete. Toulouse, France, 7-9 June 2021. Session 1, ID-26.
495. BELLOTTO M., DALCONI M.C., PASINATO V., GARBIN E., ARTIOLI G.: On the use of steel slags as supplementary cementitious materials: Optimization of the formulations for slags from different processes. ICCM2021, 11th ACI/RILEM International Conference on Cementitious Materials and Alternative Binders for Sustainable Concrete. Toulouse, France, 7-9 June 2021. Session 4, SUPP-16.
496. DALCONI M.C., GARBIN E., GRAZZI F., ARTIOLI G., FERRARI G.: Boron rich mortars for neutron shielding, mechanical and attenuation properties. ICCM2021, 11th ACI/RILEM International Conference on Cementitious Materials and Alternative Binders for Sustainable Concrete. Toulouse, France, 7-9 June 2021. Session 11, ID-23.
497. RICCI G. et al.: Radiocarbon dating of historical mortars: discrimination of contaminants for a more suitable dating procedure. XI Congresso Nazionale AIAR, Napoli, 28-30 Luglio 2021.
498. ARTIOLI G.: Crystallography and cultural heritage - On beauty, science and passion. 25th IUCr Congress, Prague, Czech Republic, 14-22 August 2021. **[invited keynote]**

499. ARTIOLI G.: Lead isotope ratios applied to Sardinian tin metal objects. International Festival of the Nuragic Civilization, V Edition, Orroli, Sardinia 10-12 September 2021. [invited talk]
500. ARTIOLI G.: Filiera dell'edilizia e industria metallurgica: possibili sinergie. XXVII Congresso Nazionale della Società Chimica Italiana, 14-23 settembre 2021. Satellite meeting: "Valorizzazione di scarti di filiere produttive" [invited talk]
501. ARTIOLI G.: Il nuovo Museo della Natura e dell'Uomo all'Università di Padova. Workshop SIMP "Ordine nel caos: catalogare le collezioni. Collezioni di Mineralogia dei Musei e delle Università Italiane. 24 September 2021. On-line event.
502. ANGELINI I., ARTIOLI G., CANOVARO C.: Diffusione del rame alpino in età pre-protostorica: analisi di provenienza. Workshop "Alla ricerca delle miniere. Tracce di sfruttamento dei giacimenti di rame nella pre-protostoria della regione sudalpina". Fiavè, Trento, 24-25 Settembre 2021. [Invited]
503. SECCO M., RICCI G., DILARIA S., GARBIN E., TAMBURINI S., ASSCHER Y., ARTIOLI G., PREVIATO C., BONETTO J.: Ancient pozzolanicity revisited: novel insights on materials and reactive processes of roman hydraulic binders. GSA Connects 2021, Portland, Oregon, 10-13 October 2021. Session 145-T105, Abst. 145-5. DOI: 10.1130/abs/2021AM-367566
504. JENNINGS B., RUBAT BOREL F., ANGELINI I., ARTIOLI G., CANOVARO C., FRENCH C., HERBIG C., KOENINGER J., MARTINELLI N., SCAIFE R., MENOTTI F.: Exploring the cultural and physical environment at Viverone Middle Bronze Age lake-dwelling. IIPP, LVI RIUNIONE SCIENTIFICA "Le scienze della Preistoria e Protostoria: Paleoecologia, Archeobiologia, applicazioni digitali e archeometria", Ferrara, 20-23 Ottobre 2021. Abstract Book, pp 7-8.
505. SCANFERLA P., TINELLO A., PASTRO M., ZAMBON M., PELLAY R., QUARESMINI R., FERRARI G., ARTIOLI G.: Soluzione end of waste per la bonifica di suoli contaminati da ceneri di pirite. ECOMONDO 2021, Rimini, Italy, 26-29 Ottobre 2021.
506. LIU Y., MOLINARI S., DALCONI M.C., BELLOTTO M., FERRARI G., PELLAY R., SALVIULO G., ARTIOLI G.: Mechanisms of in-situ remediation of soil with lead and sulfate contaminants using multiple binder strategies: experimental and numerical studies. AGU Fall Meeting 2021, New Orleans, US, 13-17 December 2021.
507. MODENA C., CESCATTI E., BONETTO I., DEIANA R., ARTIOLI G., SECCO M.: La diagnostica a supporto delle verifiche di sicurezza strutturale del ponte. Workshop "Vulci - Work in progress", I Incontro Internazionale, Parco Archeologico di Vulci, 14-15 Dicembre 2021.
508. SANTORO F., DALCONI M.C., GARBIN E., BELLOTTO M., ARTIOLI G.: Novel techniques for the assessment of injectability and environmental resistance of injection grouts for mosaic conservation. RILEM LHS Workshop on "Lime based materials for repairing Historic Structures". Thessaloniki, Greece, 3-4 February 2022.
509. RODLER A.S., BRØNS C., TEPE N., HOFMANN T., KOEBERL C., FREI R., VAN HAM-MEERT A., ARTIOLI G.: Sampling ancient polychromy: a new low-impact sample collection for provenance studies of pigments of a Roman marble sculpture. CRPA 17, Zeit(en) des Umbruchs – 17th Internationale Tagung zum Provinzialrömischen Kunstschaffen, Wien / Carnuntum, 16-21 Mai 2022.
510. RICCI G., SECCO M., CANEVE L., MARZAIOLI F., PASSARIELLO I., TERRASI F., ARTIOLI G.: Radiocarbon dating of historical mortars: discrimination of contaminants for a more suitable dating procedure. ISA 2020/2022 – 43rd International Symposium on Archaeometry, Lisbon, Portugal, 16-20 May 2022. Abst.Vol. S2-O02.331
511. SECCO M., RICCI G., DILARIA S., GARBIN E., TAMBURINI S., ASSCHER Y., ARTIOLI G., PREVIATO C., BONETTO J.: Ancient pozzolanicity revisited: new insights into raw materials, mix designs and reactive processes of Roman binders. ISA 2020/2022 – 43rd International Symposium on Archaeometry, Lisbon, Portugal, 16-20 May 2022. Abst.Vol. S4-O12.428
512. GUIDORZI L., RE A., PICOLLO F., FANTINO F., MARTIRE L., ARTIOLI G., PERUZZO L., BOESSO S., RIGATO V., LA TORRE L., LO GIUDICE A.: Studying alpha irradiation effects on quartz crystals as possible tool to unmask ceramic forgeries ISA 2020/2022 – 43rd International Symposium on Archaeometry, Lisbon, Portugal, 16-20 May 2022.
513. BEZZI L., CARRARA N., PAGANI L., SCAGGION C., ZANATTA A., ARTIOLI G.: Saint Theobald's relics: A multidisciplinary study of ancient bones. ISA 2020/2022 – 43rd International Symposium on Archaeometry, Lisbon, Portugal, 16-20 May 2022.
514. LIU Y., MOLINARI S., DALCONI M.C., BELLOTTO M.P., VALENTINI L., FERRARI G., PELLAY R., SALVIULO G., ARTIOLI G.: Mechanisms of in-situ remediation of soil with lead and sulfate contaminants using multiple binder strategies: experimental and numerical studies. EGU General Assembly 2022, Vienna, Austria, 23-27 May 2022. EGU22-3693, DOI: 10.5194/egusphere-egu22-3693
515. ARTIOLI G.: An Integrated Diagnostic and Valorization Project for UNESCO Sites: The Case of the "Terme del Sarno", Pompei. International Symposium "Crossroads: data-driven talks on ancient materiality at the interface of archeology, science and engineering". Museo Egizio, Torino, Italy, 3 June 2022. [invited]
516. ARTIOLI G.: A geologically based database of lead isotopes: updates and applications. Joint Meeting of the Royal Society of Chemistry and Society of Antiquaries. "Advances in isotope ratio and related analyses for mapping migrations from Prehistory to the Viking Age". London, UK, 13 June 2022. [invited]
517. ARTIOLI G.: Metals: waste and recovery. MINEWA 2022, EMU International School on "Minerals and waste, an Anthropocene tale", Bardonecchia, Italy, 20-24 June 2022. [invited]
518. DILARIA S., PREVIATO C., BONETTO J., SECCO M., MIRIELLO D., BARCA D., ARTIOLI G.: Pyroclastic rocks in the structural mortars of Roman Nora (Sardinia). A green material for the production of sustainable concretes in antiquity. AIAr 2022, Convegno tematico "La sostenibilità nei beni culturali".

- Padova, Italy, 29 June-1 July 2022. Oral presentation. Session 1. Sustainability in ancient manufacturing.
519. VEDOVETTO P., SECCO M., ANTONELLI F., ARTIOLI G.: Petrographic characterization and provenance of the white marbles used in the Basilica of Santa Giustina (Padova): new data on the import of Proconnesian marble in Late Antique Adriatic. AIAR 2022, Convegno tematico "La sostenibilità nei beni culturali". Padova, Italy, 29 June-1 July 2022. Oral presentation. Session 4C. Archaeometry and archaeological questions.
 520. RODLER A.S., BRØNS C., TEPE N., HOFMANN T., KOEBERL C., FREI R., ARTIOLI G.: The provenance of copper of Egyptian blue pigments: A Sarcophagus from Sidon. Goldschmidt2022, Honolulu, Hawaii, US, 10-15 July 2022. Session 12fT2 - Novel techniques and Applications of Metals & Their Isotopes: From Environment to Human biology.
 521. ARTIOLI G., BRAVO A., BROGGIO S., FERRARI G., SANTONICOLA F., SURICO F., TORELLI L., VALENTINI L., ZECCHINI A.: Low-carbon durable concrete for the new Genoa's San Giorgio Bridge. RACTSI-15, 15th International Conference on "Recent Advances in Concrete Technology and Sustainability Issues", 13-15 July 2022, Milan, Italy. Proceedings ACI SP-355, pp. 1-10, 2022.
 522. FORNONI P., DESTEFANI M., MORETTI E., SURICO F., ARTIOLI G., DALCONI M.C.: Study of the effect of different type of clays on the initial flowability of mortars in the presence of polycarboxylate superplasticizers. RACTSI-15, 15th International Conference on "Recent Advances in Concrete Technology and Sustainability Issues", 13-15 July 2022, Milan, Italy. Proceedings ACI SP-355, pp. 271-282, 2022.
 523. HUET T., CICOLANI V., ARTIOLI G.: Modelling ancient bronze craft techniques. From 3D objects models to ore provenances. CAA2022 Computer Application for Archaeology, Oxford, 8-11 August 2022. Abst.Book, pap. 76, Session 18, pag. 175.
 524. SCAGGION C., NODARI L., MARINATO M., DAL SASSO G., RIGO M., SAUPE T., ANELI S., PAGANI L., SCHEIB C.L., CARRARA N., ARTIOLI G.: Infrared spectroscopy as a human bone pre-screening method for molecular and isotope analysis. PPA 2022, 23rd European Meeting of the Paleopathology Association, Vilnius, Lithuania, 25-29 August 2022. Abst. Vol. pp. 140-141.
 525. SCAGGION C., DAL SASSO G., ADDIS A., DOMANICO A., PRETO N., ARTIOLI G., CARRARA N.: Evidence of pellagra on 19th c. human crania from Northern Italy by means of C-N stable isotopes and anthropological analyses. PPA 2022, 23rd European Meeting of the Paleopathology Association, Vilnius, Lithuania, 25-29 August 2022. Abst. Vol. pp. 142.
 526. RODLER A.S., BRØNS C., TEPE N., HOFMANN T., KOEBERL C., FREI R., ARTIOLI G.: Egyptian blue from the Palace of Apries: on the provenance of the copper component. 28th EAA Annual Meeting in Budapest, Hungary, 31 August - 3 September 2022.
 527. RODLER A.S., ARTIOLI G., JANSEN M., KLEIN S., KOEBERL C., TEPE N., HOFMANN T., FRAGNOLI P., DOLENZ H., KRAJŠEK J.: Blue walls: on the provenance of Egyptian blue pigments from Roman Noricum. 28th EAA Annual Meeting in Budapest, Hungary, 31 August - 3 September 2022.
 528. MASPERO F., GALLI A., PANZERI L., MARTINI M., RICCI G., SECCO M., ARTIOLI G., FEDI M., BARONE S., LICCIOLI L., MARZAIOLI F., TERRASI F.: Characterization and selection of mortar samples for radiocarbon dating in the framework of MODIS2 intercomparison: results of the Italian laboratories. 24th Radiocarbon Conference / 10th 14C & Archaeology Conference, Zurich, 11-16 September 2022. Oral presentation. Session A03 - Archaeology: Archeological samples for accurate radiocarbon dating.
 529. TORNARI V., ANDRIANAKIS M., DUCHENE S., NOWIK W., BRISSAUD D., GIOVANNACCI D., KÜPPERS M., REHORN C., BLÜMICH B., RICCI G., ARTIOLI G.: A combined ND diagnostic investigation by DHSPI, SIRT, THZ, NMR, on Giotto fresco. LACONA XIII "Lasers in the Conservation of Artworks", Firenze, 12-16 September 2022.
 530. DEL RIO L., MORO M., FONDRIEST M., SAROLI M., MASOCH S., DOUMAZ F., GORI S., FALCUCCI E., CAVALLO A., LUTTEROTTI L., ARTIOLI G., BOROVIN E., DI TORO G.: Slip surfaces associated with seismic faults and gravitational slope deformations in carbonate rocks. Joint SGI-SIMP meeting "Geosciences for a sustainable future", Torino, 19-21 September 2022. Abst. Vol. pp. 515.
 531. DILARIA S., PREVIATO C., BONETTO J., SECCO M., MIRIELLO D., BARCA D., ARTIOLI G.: Pulvis puteolana beyond the maritime architecture. The use of Phlegrean pyroclasts in structural mortars of Roman Nora (Sardinia, Italy). HMC2022, 6th Historic Mortars Conference, Ljubljana, Slovenia, 21-23 September 2022.
 532. SECCO M., DILARIA S., RICCI G., VOLPIN M., GARBIN E., TAMBURINI S., PREVIATO C., ARTIOLI G., BONETTO J.: From high-performance pozzolans to proto cements: 1500 years of hydraulic binders in Padua and its surroundings. HMC2022, 6th Historic Mortars Conference, Ljubljana, Slovenia, 21-23 September 2022.
 533. ARTIOLI G.: The nature, historical development, and architectural role of binders. CMSS23, 4th International Congress on Materials & Structural Stability, Rabat, Morocco, 8-10 March 2023. Plenary, Abst Vol. pp. 22. **[invited plenary]**
 534. CICOLANI V., ARTIOLI G., HUET T., ANGELINI I., CANOVARO C.: Modelling ancient bronze craft techniques in Italy. From ore to object and back. Archéométrie 2023, XXIVe colloque du GMPCA, Nice, France, 17-21 Avril 2023.
 535. DÍAZ-RAMOS I., ARTIOLI G.: Reviewing and integrating methods for the conservation of European architectural finishes in urban heritage townscapes. XII Congresso Nazionale AIAR, Messina, 19 - 21 Aprile 2023.
 536. DILARIA S., SECCO M., BONETTO J., PREVIATO C., RICCI G., GHOTTO A.R., GUIRGUIS M., MIRIELLO D., ARTIOLI G.: Vitruvian and "alternative" volcanic pozzolans in the ancient world. A brief

review based on recent scientific advances. XII Congresso Nazionale AIAr, Messina, 19 – 21 Aprile 2023.

537. RICCI G., SECCO M., DILARIA S., BELTRAME C., COSTA E., ARTIOLI G.: Mortars and water: case studies in the Venice lagoon. XII Congresso Nazionale AIAr, Messina, 19 – 21 Aprile 2023.
538. SECCO M., DILARIA S., RICCI G., FAMENGO A., ASSCHER Y., BONETTO J., ARTIOLI G.: The influence of Mg in the cementation processes of ancient binding composites. XII Congresso Nazionale AIAr, Messina, 19 – 21 Aprile 2023.
539. SALEH M., PANZERI L., POLYMERIS G.S., TSOUTSOUMANOS E., RICCI G., SECCO M., ARTIOLI G., DILARIA S., MARTINI M., GALLI A.: The impact of statistical analysis in OSL mortar dating. XII Congresso Nazionale AIAr, Messina, 19 – 21 Aprile 2023.
540. LIU Y., MOLINARI S., DALCONI M.C., VALENTINI L., BELLOTTO M.P., FERRARI G., RILIEVO G., SALVIULO G., ARTIOLI G.: In-situ remediation enlightens a down-to-earth pathway for managing the pyrite ash dumps in Italy: challenges in potentially toxic elements retention and CO₂ mitigation. 2023 EGU General Assembly, Vienna, Austria, 23–28 April 2023. Abst. EGU23-9294, DOI: 10.5194/egusphere-egu23-9294
541. ARTIOLI G.: Ancient binders before and after Roman “opus caementicium”. ECI Conference on “Alkali Activated Materials and Geopolymers, Cetraro, Calabria, Italy. May 28 – June 2, 2023. Keynote, Abst. Vol. pp. 31. **[keynote, invited]**
542. NOBOUASSIA BEWA C., VALENTINI L., KOUAMO TCHAKOUTÉ H., KAMSEU E., YANKWA DJOBO J.N., DALCONI M.C., GARBIN E., ARTIOLI G.: Reaction kinetics and microstructural characteristics of iron-rich-laterite-based phosphate binder. ECI Conference on “Alkali Activated Materials and Geopolymers: Sustainable Construction Materials and Ceramics Made Under Ambient Conditions”. Cetraro, Calabria, Italy, May 28–June 2, 2023.
543. VALENTINI L., DAL SASSO G., CASTIGLIONI F., BUSI M., FERRARI G., DALCONI M.C., STROBLE M., ARTIOLI G.: Assessing cement matrix permeability by neutron dark field imaging. SynerCrete'23, Milos Island, Greece, 15-16 June 2023.
544. ARTIOLI G.: The tin content of lead inclusions in ancient tin-bronze artefacts: A time-dependent process? IUCr 2023, 26th Congress and General Assembly of the International Union of Crystallography. Melbourne, Australia, 22-29 August 2023. Paper n. 1826. **[Invited talk]**
545. AURINO P., DE FALCO M., ANGELINI I., ARTIOLI G., CANOVARO C., CAVAZZUTI C., CIPRIANI A., LUCARELLI C., LUGLI F.: People, metals and models. External influences and long-distance connections from the Bell Beaker and Early Bronze Age burial sites of Acerra (Campania, Southern Italy). International Conference “The Transformation of Europe in the Third Millennium BC”, Riva del Garda, Trento, 25 – 28 October 2023

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4. ARTIOLI G., PLUTH J.J., SMITH J.V.: Synthetic phosphorus-substituted analcime, with ordered aluminum and silicon/phosphorus. *Acta Cryst.* **C40**, 214-217, 1984.
5. ARTIOLI G., SMITH J.V., KVICK Å.: Neutron diffraction study of natrolite, Na₂Al₂Si₃O₁₀·2H₂O, at 20 K. *Acta Cryst.* **C40**, 1658-1662, 1984.
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11. ARTIOLI G., SMITH J.V., PLUTH J.J.: X-ray structure refinement of mesolite, Na₂Ca₂Al₆Si₉O₈₀·8H₂O. *Acta Cryst.* **C42**, 937-942, 1986.
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