

PERSONAL INFORMATION

Claudia Pelosi



📍 Via del Carmine, 20, 01021, Acquapendente (VT), Italy

☎ 0039 0761357673 📠 0039 3332877468

✉ pelosi@unitus.it

🌐 <https://www.scopus.com/authid/detail.uri?authorId=22836449900>



DEGREE

Master degree in Chemistry

WORK EXPERIENCE

From January to December 1990

Contract collaborator in the Department of Forest Environment and Resources (DI.S.A.F.R.I.) of Tuscia University of Viterbo for the study of the reserve proteins of many plants, especially pines and firs, with taxonomic goals.

During my work in this department I used many analytical techniques like liquid chromatography, electrophoresis, UV-Vis and IR spectrometry, laser densitometry, optical and electronic microscopy. This work is proved by many papers on national and international reviews and congress proceedings.

From January 1991 to February 2005

I was employed as Technical Collaborator at the Faculty of Conservation of Cultural Heritage of Tuscia University owing to the winning of a public competition (D.R. nr 3495/90) to fill a post as chemist in the Diagnostics for Restoration Laboratory.

My research work was aimed to the study of materials and techniques of cultural heritage and of the air pollution in relation to the artefacts.

During my work as technical collaborator I carried out many didactic activities like: laboratory practical, tutor of degree theses, examinations. I was named as an expert on the following subjects: Product analysis; Applied chemistry; Chemistry technology and conservation of cellulose materials and of the textiles; Biology applied to Cultural Heritage; Chemistry of the environment; Chemistry deterioration and conservation technique of porous building materials and of the wall paintings; Chemistry for restoration; General physics

From March 2005 to November 2022

Researcher at the Department of Sciences for Cultural Heritage (from 2005 to November 2015) in the University of Tuscia - Viterbo (Italy). After the suppression of the department in November 2015, I am member of the **Department of Economics, Engineering, Society and Business Organization**.

Current position (from December 2022)

Associate Professor in Chemistry for Environment and Cultural Heritage (CHEM-01/B).

Subjects: Chemistry for Restoration, Diagnostics and Spectroscopy for Cultural Heritage, Laboratory of Materials Science, Polymer Chemistry, Fundamentals of Chemistry.

Main activities and responsibilities

- I am scientific and technical responsible of the Laboratory of Diagnostics and Materials Science that belongs to the R7 network of Center of Excellence Technological District of Cultural Heritage of Lazio Region.

- From July 2024 I am member of the Research Infrastructure of the Center of Excellence Technological District of Cultural Heritage of Lazio Region.

- I was assistant of the coordinator of the three-year new base course L1-L43 (Conservation of Cultural Heritage) until 2014.

- I am assistant to the coordinator of the five-years course LMR/02 Conservation and Restoration of Cultural Heritage concerning the diagnostics.

- I was in charge for the guidance of the students who come from the high schools to the university until the suppression of the Department of Cultural Sciences in November 2015.

- At present I am in charge as representative of my Department (DEIM: Department of Economics, Engineering, Society and Business Organization) in the Cultural Heritage Pole.

- I am member of the PhD School: "Engineering for Energy and Environment" of University of Tuscia. In November 2023 I was appointed member of the quality

assurance group of the doctoral school.

- I was Representative of MIUR (Ministry of University and Research) for the final exams qualifying for the profession of restorer for the LMR/02 course, at the University of Palermo [Official Register: Prot. 0030215 of 10/27/2017] and at the Suor Orsola Benincasa University of Naples [Prot. 0030163 of 10/30/2018].

National Scientific Qualification

On 01/06/2022 I obtained the National Scientific Qualification as Full Professor in Analytical Chemistry (D.D. 553/2021 e 589/2021) with validity from 01/06/2022 to 01/06/2033.

I am co-author of 124 scientific papers (h-index = 25, from Scopus: <https://www.scopus.com/authid/detail.uri?authorid=22836449900>)

EDUCATION AND TRAINING

November 1984–November 1989

Master Degree in Chemistry (110/110 cum laude)

University of Perugia (Italy).

- Study of surfactants and aggregation models in organic solvents
- Study of reactions kinetics by UV/VIS spectrometry
- Applications of infrared spectroscopy for the characterization of organics
- Chemistry of heterocyclic compounds

May 1990

- Chemist Profession qualifying Diploma at University of Perugia.

Training courses

- **On July 2010** I participated to a Workshop on: The Waste management and the new SISTRI system, organized by Tuscia University and Italian Confartigianato.
- **On December 2001** I participated to a Mass Spectrometry course organized by Italian Chemical Society on the study of proteins and oligonucleides.
- **On December 2000** I participated to a Mass Spectrometry course organized by Italian Chemical Society in Viterbo. On this occasion I presented a poster with the title: "Qualitative analysis of proteins used in wall paintings".
- **On January 1990** I participated to a Base Course for programming and maintenance of Gilson samplers organized at Rome by Biolabo Instruments S.r.l.

PERSONAL SKILLS

Mother tongue

Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken Interaction	Spoken Production	
English	B2	C2	B2	B2	C2

Levels: A1/A2: base - B1/B2: intermediate - C1/C2: advanced

Communication skills

During the years that I worked in the University I had the possibility to collaborate with students, colleagues, professors from other universities, commercial societies and so on. In that way I developed the capabilities to organize group activities and to coordinate different kinds of collaborators.

I coordinated, for example, the activities of the students with a scholarship to support the laboratory work. For many years, I planned the activities of these students (also 8 within a year!) in the university structures.

From many years I have been performed the guidance activities for the students from the secondary schools and for those of the first university year. The guidance activities improved my communicative capabilities.

Moreover, the teaching activities in the university and in the school during the last 23 years of my life, strengthened my skills at working inside a team and also at coordinating the work groups.

I further developed my organizing abilities by participating to the research projects. In fact, inside the projects I always had a supervisor role as regards my specific area of competence.

Organizational and management skills

- Guess Editor of the Special Issue "Heritage Conservation and Restoration: Surface Treatments, Coatings and Sustainable Approaches" for the journal Coatings. Deadline: 10 July 2026.
- Guess Editor of the Special Issue "Cultural Heritage: Restoration and Conservation" for the journal Applied Sciences (MDPI). Deadline 20 October 2025.
- Session Chair of the 4th Coatings and Interface Online Conference (CIC2025).
- Guest Editor of the Special issue "The Future in the Restoration and Conservation of Cultural Heritage: Towards Green and Innovative Approaches to the Processes" for the journals: Remote Sensing, Sustainability, Materials, Coatings, Heritage (MDPI).
- Guest Editor of the special issue "Surface and Interface Analysis in Cultural Heritage" of the journal Coatings (MDPI), first and second editions.
- Guest Editor of the Special Issue "New Trends in Image Processing for Archaeology" of the journal Heritage (MDPI)
- Member of the Editorial Board of the international journal **European Journal of Science and Theology** (Q1 in Engineering, <http://www.ejst.tuiasi.ro/editorial.html>)
- I collaborated to the organisation of the **conference ESRARC2019** (European Symposium on Religious Art Restoration and Conservation), Valencia (Spain), 11-13 April 2019. I was member of the Scientific Committee, Reviewer and Editor of the Proceedings Book.
- I collaborated to the organisation of the **conference ESRARC2017** (European Symposium on Religious Art Restoration and Conservation), Iași (Romania), 18-20 May 2017. I was member of the Scientific Committee and Reviewer.
- I organized the **conference ESRARC2016** (European Symposium on Religious Art Restoration and Conservation), Viterbo, 26-28 May 2016. I was responsible of the Organizing Committee and Editor of the Proceeding Book. I also presented 5 short papers with the titles:
 - The Crucifixion: a panel painting in the museum of Colle del Duomo in Viterbo (Italy). New insights in the light of a first diagnostic campaign.
 - The wooden door of the Bregno's aedicule in the church of Santa Maria della Quercia in Viterbo.
 - The conservation of a "Virgin Carmen" artwork and history of sailors devotion.
 - Non-invasive spectroscopic techniques and photographic methods for the study of the so called "Saint Thomas" bible from the Ardenti library in Viterbo (Italy).
 - Doria repository: new data and technical details in the light of the actual conservation project.
- I participated to the organization of the **Congress: YOUTH AND RESTORATION**. The Art in Time: Meaning, Transformation and Conservation" that was in February 2016 in Rome. I am promoter and member of the scientific committee.
- I participate to the organization of the international **Workshop Brass Instruments from Ancient Europe** that will be in Viterbo (Italy) from November 11th to 13th, 2015 within the European Project EMAP. I am member of the Scientific Committee.
- In the month of March 2009 I participated to the Restoration Showroom in Ferrara with a stand representing the Faculty of Conservation of Cultural Heritage of Tuscia University together with the Society MHT. I collected the materials to prepare the stand, I carry them in Ferrara and I offered information to the visitors.
- On December 2004 I collaborated to the organization of the **exhibition "A Slash of Light. The chiaroscuro of Mattia and Gregorio Preti painting"**. The exhibition was carried out in Viterbo (Italy) from 17th December 2004 to 30th January 2005. On this occasion I carried out some analyses on three of the paintings restored by the Laboratory of Restoration of Viterbo Province, directed by Dr. Giorgio Capriotti. In particular, the investigated paintings were: The Madonna of Sorrows, St. Peter blessing and The penitent St. Peter, coming from Wignacourt College Museum of Rabat in Malta. The results of the analyses were reported in two panels during the exhibition and in the exhibition catalogue.
- In the month of March 2008 I participated to the **Restoration Showroom in Ferrara** with a stand representing the Faculty of Conservation of Cultural Heritage of Tuscia University. I collected the materials to prepare the stand, I carry them in Ferrara and I offered information to the visitors.

I also organized a journey to the Showroom for the students of the Faculty of Cultural Heritage of Viterbo.

- In the years 1995 and 1997 I collaborated to the organization of the I and II Congress for the study of the Medieval and Renaissance Ceramics in Acquapendente, as member of the local Archeoclub Association. During my association to the Archeoclub in the '90's, I collaborated to the excavation activities, documentation, restoration and conservation of the ceramics found during the excavation.

Technical skills

During my work in the university, I learnt the use of many techniques like liquid chromatography, electrophoresis, UV-Vis and IR spectrometry, laser densitometry, optical and electronic microscopy, microclimate monitoring instruments, X-ray spectroscopy, micro-Raman spectroscopy, FTIR spectroscopy, multispectral and hyperspectral systems.

Informatics

Concerning the software I usually use the following:

- Microsoft Word
- Microsoft Excel
- Internet Explorer
- Adobe Acrobat
- Corel Photo-Paint
- Photoshop
- File Maker

Moreover, I use specific applications for the research and for the didactics:

- Omnic 8.0 for the processing of Infrared and Raman spectra
- AxioVision, for the acquisition of microscope images
- QA-Lite and CLM 19x Interface EOPTIS, for the colour data measurement and processing
- PickViewer, software developed by Profilocolore for the elaboration of multispectral images calibrated with the software Spectra Pick by Profilocolore srl.

Other skills

I am reviewer of 26 international Journals (visible on Publons at the link:
<https://publons.com/researcher/1286177/claudia-pelosi>)

Activity as expert of on the subject

Academic year 2000/2001: I was named as an expert on the subject Theory and techniques of architectural restoration.

Academic year 1998/99: I was named as an expert on the following subjects: Science and technology of the materials; Information technology applied to the cataloguing of cultural heritage.

Academic year 1991-1992: I was named as an expert on the following subjects: Product analysis; Applied chemistry; Chemistry technology and conservation of cellulose materials and of the textiles; Biology applied to Cultural Heritage; Chemistry of the environment; Chemistry deterioration and conservation technique of porous building materials and of the wall paintings; Chemistry for restoration; General physics.

DRIVING LICENCE

Driving licence type B issued by the Prefettura of Viterbo

FURTHER INFORMATION

Publications

<https://www.scopus.com/authid/detail.uri?authorId=22836449900>
<https://publons.com/researcher/1286177/claudia-pelosi/>
<https://scholar.google.com/citations?user=HCEYvsQAAAAJ&hl=it>

Participation to national and international congresses with oral presentation or posters

- **15-16 January 2026:** participation to the final conference of CHANGES project - Mappe e scenari per il futuro del patrimonio culturale. Tre anni di ricerche del partenariato PNRR CHANGES, Rome (Italy). Two oral presentations: Session 12 - 3D digital twins diagnostici per i beni culturali: funzionalità per la conservazione, il restauro e la creazione di caveau digitali per la memoria del patrimonio e la divulgazione multilivello; Session 16: Monitoraggio, diagnostica e pronto intervento: un esempio di approccio integrato per i piccoli musei.
- **23-24 October 2025:** participation to the European Symposium on Religious Art, Restoration and

Conservation as lecturer and member of the Scientific Committee. Two oral presentations on: Diagnostics and conservation of a 15th century wall painting representing St. Egidius in Filacciano's cemetery (Rome, Italy) and Conservation issues of panel paintings: the case of the Saints Lowrence and Stephen painting in the museum of Colle del Duomo in Viterbo (Italy).

- **10-13 September 2025:** Italian Chemical Society Congress – Division of Chemistry for Environment and Cultural Heritage, Cremona (Italy). Oral presentation on: Some considerations on the use of hypercolorimetric multispectral imaging as innovative technique for wall painting examination; poster on: In-cloud monitoring proposal for small museums: the case of the painting gallery and conclave hall in the monumental complex of Colle del Duomo at Viterbo - CHANGES project framework.
- **23-24 January 2025:** CHANGES Conference in Rome. Oral lecture on: Low-cost integrated protocol for the monitoring of the painting gallery and Conclave Hall in the Monumental Complex of Colle del Duomo at Viterbo. Award winner of the CHANGES Awards.
- **11 September 2024:** participation to the International Research Seminar on Conservation for the Wall Paintings in Cappadocia, online modality. I presented a lecture entitled: Techniques and materials: new acquisitions.
- **28-31 August 2024:** participation to the conference EAA (European Association of Archaeologists) in Rome. I co-presented two contributions: (1) Tokali project in Cappadocia. Integrated and interdisciplinary system for the knowledge and conservation of murals; (2) The recent application of hypercolorimetric multispectral imaging (HMI) and colour measurements to the wall paintings of Santa Maria Antiqua with reference to the scientific analysis performed in the previous decades.
- **28 July – 2 August 2024:** presentation of a paper to the conference ICORS2024 (28th International Conference on Raman Spectroscopy) in Rome. The title of the presentation was: A multi-analytical approach to investigate the altars' stuccoes in the Sant'Angelo complex in Barbarano Romano (VT).
- **20-21 June 2024:** participation to the conference RELIGION, KNOWLEDGE, SOCIETY - Homo religiosus & homo technicus: discontinuities or congruencies?, as INVITED LECTURE. The conference was held in Constanța (Romania). I presented a lecture entitled: Diagnostics and technology for cultural heritage knowledge and conservation
- **19-21 October 2023:** participation to the international Conference MetroArcheo 2023 in Rome, Università di Roma Tre. I presented three lectures: "Analysis of materials of wax Christ-children from the Monastery of Santa Rosa in Viterbo"; "Study and restoration of the Sacra Conversazione by Lorenzo Berrettini and experimental tests to evaluate the application of diammonium phosphate as consolidant for the wall painting"; "The use of micaceous pigments for the chromatic reintegration of the gilded stuccoes in the Lante Della Rovere chapel of Palazzo Orsini in Bomarzo".
- **25-27 May 2023:** I participated to the 13th European Symposium on Religious Art Restoration and Conservation (ESRARC 2023) held in Constanța (Romania). I presented two lectures: "The potentiality of non-invasive diagnostics for religious wall painting investigation" and "Study of a panel painting representing St. Mark by the Italian Renaissance artist Ballesta".
- **From 19 to 21 of April 2023** I participated to the national Congress of Italian Association of Archaeometry in Messina. I presented a lecture with the title "The restoration of the restoration on the wall paintings of the Room E in the Roman Domus delle Pitture of Volsinii: analysis of the materials and degradation pattern".
- **From 25 to 27 of May 2023** I participated to the 13th European Symposium on Religious Art Restoration and Conservation (ESRARC 2023) in Constanța (Romania). I presented two lectures with the titles: "The potentiality of non-invasive diagnostics for religious wall painting investigation" and "Study of a panel painting representing St. Mark by the Italian Renaissance artist Ballesta".
- **From 19 to 21 of October 2022** I participated to the international Metrology for Archaeology and Cultural Heritage (MetroArcheo 2022) in Cosenza. I presented a lecture with the title "Innovative diagnostics through Hypercolorimetric Multispectral Imaging and Pulse-compression Thermography to support the restoration of a 16th wall painting in Palazzo Gallo (Bagnaia, Italy)".
- **On 17th of October 2022** I participated on-line to the 3rd International Electronic Conference on Forests. I presented a lecture as invited speakers at the live session 1 on Wood Science with the title "Effect of a new mono-component polyurethane coating on untreated and heat-treated Ayous wood (*Triplochiton scleroxylon* K. Schum)".
- **From 14 to 16 of September 2022** I participated to the European Symposium on Religious Art, Restoration and Conservation (ESRARC2022) in Palermo. I presented two oral contributions. Title: "The contribution of hypercolorimetric multispectral imaging for investigating religious artworks" and "The wooden statue venerated as Saint John the Evangelist in the altar of the Blessed Virgin of Itria in Noragugume (NU, Italy): diagnostics and restoration".
- **From 28 of June to the first of July, 2022** I participated to the Conference of the Italian Association of Archaeometry (AIAR) in Padova. I presented a poster and an oral lecture about "Evaluation of gelling agents in the biocleaning of the 16th century painting "Coronation of the Virgin with the Saints Ambrose and Jerome".

- **From 20th to 23th October 2021:** participation in presence to the 1st European Symposium on Drugs & Colors in History: from the past to the present. Revisiting ancient Pharmacies, Apothecaries, Spezierias & Workshops che si è tenuto a Valencia (Spain). I presented a Master Lecture entitled Natural Dyes Used in Painting, Food and Drugs. Moreover, I was member of the Scientific Committee (<https://www.uv.es/drugsandcolor/program.html>).
- **From 1st to 15th of September 2021:** participation to the 2nd International Electronic Conference on Forests — Forests for a Better Future: Sustainability, Innovation, Interdisciplinarity (on-line). I was member of the Scientific Committee (<https://iecf2021.sciforum.net/>) and reviewers of the papers in the section S5. Wood Science, Forest Products and Trade
- **From 21st to 26th of June 2021:** participation to the SPIE Optical Metrology International Symposium 2021, session Optics for Arts, Architecture, and Archaeology (O3A) VIII. I presented an oral entitled: 2D and 3D ultraviolet fluorescence applications on cultural heritage paintings and objects through a low-cost approach for diagnostics and documentation", published in the Proceedings di SPIE. Link: <https://www.spiedigitallibrary.org/conference-proceedings-of-spie/11784/1178417/2D-and-3D-ultraviolet-fluorescence-applications-on-cultural-heritage-paintings/10.1117/12.2593691.full>
- **From 22nd to 29th of April 2021:** participation to the 1st Seminario Universitario su Patrimonio Inmaterial Desarrollo Humano. Legados intangibles que promueven Identidad, Memoria Histórica y Cultura de Paz, at the Facultad de Geografía e Historia, Universitat de València (España). I presented a lecture entitled: La musica come bene inmateriale del passato: studio dei materiali e delle tecniche costruttive di strumenti musicali Etruschi e Romani in lega metallica per la creazione di repliche e suoni
- **From 15th to 30th November 2020:** 1st International Electronic Conference on Forests — Forests for a Better Future: Sustainability, Innovation, Interdisciplinarity (on-line). I presented a paper entitled "Artificial Weathering Effect on Surface of Heat-Treated Wood of Ayous (Triplochiton scleroxylon K. Shum)". Moreover, I participated to the conference as member of the Conference Committee.
- **15-30 November 2020:** 1st International Electronic Conference on Forests — Forests for a Better Future: Sustainability, Innovation, Interdisciplinarity (on-line). I presented a paper entitled "Artificial Weathering Effect on Surface of Heat-Treated Wood of Ayous (Triplochiton scleroxylon K. Shum)". Moreover, I participated to the conference as member of the Conference Committee.
- **3-4 November 2020:** I participated to the International Conference YOCOCU (on-line) with an oral presentation named "Advanced documentation methodologies for the conservation of a 18th century wall painting in the Palazzo Nuzzi at Orte (Central Italy)"
- **14-16 October 2020.** I participated to the International conference Florence Heri-Tech (on-line). I presented a speech named "Hypercolorimetric multispectral Imaging and Pulse Compression thermography as innovative combined techniques for painting investigation: the case of a detached wall painting by Pastura".
- **17 September 2020:** I participated to the International congress Nanoinnovation in Rome. I was Chair of the Special Session on Cultural Heritage, and co-author of the oral presentation "SERS on "tapa": detecting dyes and pigments on a Polynesian cloth through a multi-technical approach" related by Alessandro Ciccola.
- **From 16th to 17th of November 2019** I participated to the international congress **MA-XRF in Catania (Italy)**. I presented an oral entitled: "MA-XRF analysis of metal objects from the archaeological site of Ferento".
- **From 24th to 27 of June 2019** I participated to the conference **Optics for Arts, Architecture, and Archaeology VII**, in Munchen (Germany). I presented a poster and a short oral with the title: Tattoo Wall@: study of the stability of an innovative decorative technique through hyperspectral imaging and possible application in the mural painting's restoration. The paper has been published in the Proceedings of SPIE.
- **From 11th to 14th June 2019** I participated to the conference **Nanoinnovation 2019** in Rome. I presented an oral entitled: "Surface protection of "Sperone" of Villa Mondragone by nanostructured materials in the framework of ADAMO project".
- **From 11th to 13th of April 2019** I participated to the 11th edition of the European Symposium on Religious Art Restoration and Conservation (**ESRARC2019**) that was held in Valencia.
I presented a Keynote lecture entitled:
- Documentation and analysis of the colours in the architectural elements of the St. Sepolcro of Acquapendente (Italy).
and an oral contribution named:
- Microclimate monitoring in the Museum of Colle del Duomo in Viterbo (Italy)
Moreover I contributed to other three orals presented at the Symposium, with the titles:
- The botanical species in the marquetry decorations of the wooden choir of San Ruffino Cathedral

in Assisi

- Analysis on a book of psalms printed at Neamt Monastery (Neamt County of Romania) in 1824
- The 16th century tryptic of Santa Liberata: diagnostics and restoration (Keynote lecture).

• **From 31st of May to 1st of June 2018** I participated to the European Symposium on Religious Art Restoration and Conservation (**ESRARC2018**) that was held in Prague. I presented a Keynote lecture entitled:

- The importance of diagnostic investigation to reveal hidden paintings

Moreover, I participated to the following other oral contributions:

- Analysis on the wooden board of the religious book of Psalms dated to 1802.
- A contribution to the diagnostic study of the panel painting San Giorgio e il Drago preserved in Municipal Art Gallery of Spoleto
- 3D model and ultraviolet fluorescence rendering: a methodological approach for the study of a wooden reliquary bust.

• **From 14th to 16th of February 2018** I participated to **Archaeometry Conference in Torino (Italy)** with two oral presentations, titles: Hypercolorimetric multispectral Imaging system for Cultural Heritage diagnostics: an innovative study for copper painting application; and Tattoo Wall@: study of the stability of an innovative decorative technique and possible application in the restoration of paintings in outdoor and hypogeum environments.

• **From 11st to 13rd of June 2017** I participated to the **Colloquium Spectroscopicum Internationale XL** in Pisa (Italy) at Palace Congress. I presented a Keynote Lecture with the title: Multi-analytical approach for the evaluation of the stability of painting materials for conservation purposes.

• **From 18th to 20th of May 2017** I participated to the 9th European Symposium on Religious Art Restoration & Conservation (**ESRARC 2015**) in Iași (Romania). I presented the following orals:

- Analysis of three paintings by Mattia Preti from Wignacourt College Museum, Rabat (Malta);
- Xylological investigation of the door of the Orphanage and ex-Abbey of St. Second in Amelia, during the restoration phases;
- The conservation of wooden historical works of art: technological evaluation, diagnosis and valorization;
- Conservation issues in hypogeum spaces: the case of Vatican Necropolis;
- Francesco Nagni and the collection preserved at the Museum of Colle del Duomo (Viterbo).

• **From 8th to 10th of March 2017** I participated to the thematic congress of **AIAR (Italian Association of Archaeometry)**: great facilities and laboratory networks, that was held in Florence. I presented an oral with the title: In-situ investigation on Pian di Civita Etruscan lituus from the "monumental complex" of Tarquinia (VT – Italy), and a poster with the title: Current practices and processes for management and conservation of Cultural Heritage in case of natural disasters.

• **From 9th to 11th of March 2016** I participated to the **IX National Congress of Archaeometry** in Cosenza (Italy) I presented and oral with the title: X-ray fluorescence investigation on ancient Roman musical instruments.

• **From 11th to 13th of November 2015** I participated to the **International Conference on Brass Instruments** from Ancient Europe in Viterbo (Italy).

I presented the following two lectures:

- X-ray techniques for analysis and comparison of two Etruscan bronze litui from Tarquinia and Cortona
- Non-invasive X-ray fluorescence for the investigation of ancient bronze and brass musical instruments: an overview.

• **From 24th to 26th of September 2015** I participated to the conference **Colour2015 in Evora** (Portugal) I made an oral presentation with the title: Yellow pigments based on lead, tin and antimony: synthesis, characterization and hue choice in artworks.

• **From 4th to 6th of June 2015** I participated to the 7th European Symposium on Religious Art Restoration & Conservation (**ESRARC 2015**) in Trnava (Slovacchia). I presented two oral relations with the titles:

- Non-invasive investigation of a 15th Crucifixion in the church of Santa Maria Nova in Viterbo (Italy)
- Liturgical restoration: the case study of Infant Jesus of Prague from the church of St. Maria of providence at Macchia Giarre (Italy).

• **From 27th to 30th April 2015** I participated to the **International Congress TECHNART** in Catania (Italy). I presented two oral relations with the titles: A multi-analytical approach to the study of the mural paintings in the Presbyterian area of Santa Maria Antiqua al Foro Romano in Rome and X-ray fluorescence applied to yellow pigments based on lead, tin and antimony: a comparison of laboratory and portable instrumentation) and a poster: A multi-analytical approach applied to the archaeometric

study of mortars taken from The Forty Martyrs rupestrian complex in Cappadocia (Turkey).

- **From 14th to 17th of December 2014** I participated to the **5th Mediterranean Meeting “Employ of Multivariate Analysis and Chemometrics in Cultural Heritage and Environmental Fields”** CMA4CH2014, in Rome. I presented two lectures with the titles: Photochemical Colour Changes on Chestnut Wood Surface e Chromatic Variations of Wood Surface Due to Laser Irradiation.
- **From 5th to 7th of November 2014** I participated to the **11th Infrared and Raman User Group Conference in Boston** (USA). I presented a lecture from the title: “The terracotta sculptures of Palazzo Venezia in Rome. Investigation on the constituent materials for the knowledge and the conservation project”
- **From 9th to 11st of June 2014** I participated to the **6th European Symposium on Religious Art Restoration & Conservation in Florence**. I presented an oral with the title: “The Triptych of the Holy Saviour in the Tivoli Cathedral: Diagnosis, Conservation and Religious Requirements”
- **From 5th al 7th of February 2014** I participated to the **VIII National Congress of Archaeometry**, in Bologna (Italy). I presented two orals with the titles: “Study of the Lase Cleaning of Wooden Object” and “Cappadocian Rupestrian Churches and Conservative Strategies: From the Lab to the Archaeological Site”.
- **From 13rd to 15th of November 2013** I participated to the 6th international congress **Rupestrian Culture in Savellettri di Fasano** (Brindisi, Italy). I presented an oral INVITED lecture with the title: “Scientific methodologies for the study of the techniques and the materials of the wall paintings in rocky habitats”.
- **From 19th to 20th of September 2013** I participated to the **National Congress of the Colour Group** that took place in Florence. I presented an oral relation with the title: “The use of colour measurements to evaluate the removal of from polychromatic surfaces by using traditional and innovative systems”. I presented also a poster with the title: “The application of reflectance spectrophotometry and X-ray fluorescence spectroscopy to characterize the pigments in a mixture”. The papers were published in the volume: Colour and Colorimetry, multidisciplinary contributions, Vol IX A, Maurizio Rossi and Andrea Siniscalco (Eds.), Maggioli Editore, Santarcangelo di Romagna (RN).
- **From 2nd to 6th of September 2013** I participated to the International **Congress on the Application of Raman Spectroscopy in Art and Archaeology (RAA)**, that took place in **Ljubljana** (Slovenia). I presented a poster and a short relation with the title: “Micro-Raman and internal micro-stratigraphic analysis of the painting materials in the rock-hewn church of the Forty Martyrs in Şahinefendi, Cappadocia (Turkey)”. Moreover I collaborated to other two posters: “Non-destructive micro-Raman and XRF investigation on parade saddles of the Italian Renaissance” and “Phoenicians preferred red pigments: micro-Raman investigation on some cosmetics found in Sicily archaeological sites”. The extended abstracts were published in the Book of Abstracts, provided with ISBN.
- **From 25th to 27th of June 2013** I participated to the international congress **FLAMN2013 (Fundamentals of Laser Assisted Micro- & Nanotechnologies) in Saint Petersburg** (Russia). I presented an oral INVITED lecture with the title: “Laser cleaning experiences on Sculptures’ Materials: terracotta, plaster, wood and wax”.
- **From 14th to 15th of May 2013** I participated to the International **Conference Optics for Arts, Architecture, and Archaeology IV in Munich** (Germany). I presented a poster with the title: “Application of spectroscopic techniques for the study of the surface changes in poplar wood and possible implications in conservation of wooden artefacts”, published in the Proceedings of the conference (SPIE Volume 8790).
- **From 11 to 13 of May 2013** I participated to the international **Conference TRACE2013** (Tree Rings in Archaeology, Climatology and Ecology). I presented a poster with the title: “Preliminary results of micro-FTIR analysis to detect traces of organic contaminants in poplar (Populus nigra) tree rings from the River Sacco’s valley (Lazio Region, Italy)”.
- **From 7 to 8 of February 2013** I participated to the **Congress AMMC (Ancient and Modern Mortars Conference)**, in Florence. I submitted an oral presentation with the title “Analysis and laboratory tests to evaluate the composition and the behaviour of some dehumidifying lime mortars used in the restoration field”.
- **From 26 to 27 of June 2012** I participated to the 2nd International Congress **L’ICONA (Light in Conservation of Artworks)** that took place in Saint Petersburg (Russia). I presented an oral relation with the title: “Study of the laser cleaning on plaster sculptures. The effect of laser irradiation on the surfaces”.
- **From 18 to 20 of June 2012** I participated to the International Congress **YOCOCU2012** that took place in Antwerpen (Belgium). I presented an oral relation with the title: “The painted silk panels of Palazzo Barberini at Rome. The scientific investigation and preservation challenges”.
- **On 14 of June 2012** I presented an oral relation to the **Congress Aplar4**, in Rome, in the Roman

National Museum inside the Palazzo Massimo alle Terme. I made a presentation with the title: "Diagnostic analysis and laser cleaning of Etruscan polychromatic terracotta finds from the excavations in Monte Landro (San Lorenzo Nuovo, Viterbo, Italy)"

- **From 28 to 31 of March 2012** I participated to the **10th International Congress IRUG (Infrared and Raman User Group)** that took place in Barcelona. I made an oral presentation with the title: "Evolution of surface chemistry and colour in photo-irradiated wood". I also presented a poster with the title: "The rock hewn wall paintings in Cappadocia (Turkey). Characterization of the constitutive materials and chronological overview".
- **From 22 to 24 of February 2012** I participated to the **VII Archaeometry National Congress in Pavia**. I submitted an oral presentation with the title "A 15th Century Polychromatic Wooden Statue by Francesco of Valdambino. The scientific investigation and preservation challenges".
- **From 22 to 25 of November 2011** I participated to the **5th International Congress Science and technology for the Safeguard of Cultural Heritage in the Mediterranean Basin** that took place in Istanbul. I presented a poster with the title "The altar machine in the church Mother of Gangi (Palermo, Italy): materials, usage, preservation, environment" and an oral relation with the title: "The diagnostic analysis for the study and restoration of the wood model of the church of S. Maria della Consolazione in Todi (Italy)".
- **On 16 of September 2011** I participated to the **SIOF (Italian Society of Optics and Photonics)** Congress that took place in Rome. I made an oral presentation with the title "Colour evolution of wood surfaces in simulated sunlight exposure".
- **From 7 to 10 of September 2011** I participated to the **International Conference LACONA9 (Laser in Conservation of Artworks)** that took place in London. I made an oral presentation with the title "Use of laser technology for the conservation project of a 18th century terracotta sculpture by Gaspare Sibilla".
- **From 23 to 26 of May 2011** I participated to the **SPIE's Optical Metrology International Symposium** that took place in Munich, Germany. I presented a poster with the title "Colour measurements of surfaces to evaluate the restoration materials".
- **From 1 to 4 of March 2011** I participated to the **Congress Science for Contemporary Art**, in Ferrara. I submitted an oral presentation with the title "The murals of Calvi dell'Umbria, a Painted town in Central Italy. Analysis of the painting materials and preservation problems" and a poster with the title "Analysis of the materials and authentication of a polychrome wood mask from Papua New Guinea".
- **From 13 to 16 of July 2010** I participated to the **XXVI International Congress Science and Cultural Heritage, Think Prevention**, that took place in Bressanone (BZ). I made an oral presentation with the title "Prevention in contemporary art: the case study of Ferro bifrontale arancione and Plastico in ferro by Pietro Consagra".
- **From 30 of June to 3 of July 2010** I participated to the **I International Congress Chemistry for Cultural Heritage** that took place in Ravenna. I presented two posters with the title: "Microscopy and spectroscopic analysis of three paintings by Mattia Preti from Wignacourt College Museum, Rabat (Malta)" and "Non-invasive spectroscopic techniques and photographic methods for the study of the so called Saint Thomas Bible from the Ardeni Library in Viterbo (Italy)".
- **From 3 to 6 of March 2010** I participated to the **International Conference of the Infrared and Raman Users Group (IRUG9)** that took place in Buenos Aires. I presented a poster with the title "Artificial yellow pigments: production and characterization through spectroscopic methods of analysis". The poster received an award as best research work presented.
- **From 15 to 18 of February 2010** I participated to the **VI Archaeometry National Congress** in Pavia. I submitted an oral presentation with the title "Evaluation of colour change due to consolidation in wooden samples" and a poster with the title "The painted silk panels of Palazzo Barberini at Rome: diagnostic analysis for conservation and restoration".
- **From 6 to 8 of December 2009** I participated to the **International Conference Cultural Heritage** that took place in Il Cairo (Egypt). I submitted four relations with the tiles. "The wall paintings of the crypt of the medieval Church on Saint Andrew in Viterbo (Italy): diagnostic analysis and state of preservation"; "The tomb nr.57 from Servi Cemetery in Novilara (Italy): diagnostic analysis and state of preservation"; "Evaluation of a microclimate monitoring system applied to small size Museums" and "The charcoals of the archaeological site of Ferento (Viterbo-Italy)".
- **From 16 to 20 October 2009** I participated to the **XI International AIEMA Mosaic Symposium** that took place in Bursa (Turkey). I submitted a paper with the title: "The VIth century floor mosaic of the church of Küçük Tavşan Adası (Bodrum). Characterization of the constitutive materials. Finding of the quarries of origin". The Proceedings of the Conference are now available.
- **From 7 to 9 October 2009** I participated to the **V National Conference of the Colour Group** that took place in Palermo (Italy). I submitted a paper with the title: "Valutazione della stabilità degli acquerelli nel restauro attraverso misure di colore". The Proceedings of the Conference have already

been published.

- **From 23 to 26 June 2009** I participated to the **XXV Congress “Conservare e restaurare il legno”** that has been taken place in Bressanone. I made an oral presentation with the title *La valutazione sperimentale dei consolidanti per il legno* now published in the Congress Proceedings by Arcadia Ricerche, Padova, pp. 475-484.
- **From 25 to 29 May 2009** I participated to the **31th International Symposium of Excavations, Surveys and Archaeometry**, that has been taken place in the Pamukkale University, Denizli (Turkey). I made an oral presentation with the title *“Project on the Rock Paintings in Cappadocia. Analytic Investigations of the Church of the Forty Martyrs in Şahinefendi and Other Sites (Report 2008)”*.
- **From 26 to 27 February 2009** I participated to the **Meeting “The Monastery of Saint Magno and the discovered medieval church”**, organized by Lazio Region together with the Ministry for Arts and Culture and the Faculty of Conservation of Cultural Heritage of the University of Tuscia. The meeting took place in the Abbey of Saint Magno - Fondi (LT). I presented a report with the title *The church and the disclosed paintings. The diagnostic analyses and the restoration*.
- **From 24 to 26 February 2009** I participated to the **Archaeometry National Congress “Riflessioni e trasparenze. Diagnostici e Conservazione di Opere e Manufatti Vetrosi”** in Ravenna. I submitted an oral presentation in English with the title *“The diagnostic analyses aimed at the restoration of the mosaic fragment with an Angel coming from Giotto’s Navicella”*.
- **From 24 to 25 November 2008** I participated to the **International Meeting YOCOCU – YOUTH in CONSERVATION OF CULTURAL HERITAGE** in Rome. I submitted three posters with the titles: *“Study of Wall Paintings and Mosaics by means of Ultraviolet Fluorescence and False Colour Infrared Photography”*; *“A Methodological Approach to the Safeguard of the Wooden Door of Todi Cathedral”*; *“Study of decorated pottery fragments by means of micro-Raman and other techniques”*, that were published in the Meeting Proceedings.
- **From 26 to 29 February 2008** I participated to the **VI Archaeometry National Congress in Siracusa**. I submitted a paper with the title *“The diagnostic analysis aimed at the restoration: the case of the wooden model of the S. Maria della Consolazione Church in Todi”*.
- **From 21 to 22 February 2009** I participated to the **Congress DIA.CO.MAST** (Diagnostics for the safeguard and conservation of the materials in the buildings) in San Leucio (Caserta, Italy). On this occasion I submitted a paper with the title *“The Plautii Mausoleum in Tivoli: the diagnostics for the conservation of travertine”*.
- **From 24 to 28 October 2007** I participated to the **Building Exhibition in Bologna** with a report bearing the title *“Analysis of the most common dehumidifying plasters and of their components”*. The workshop was organized by the Society MAPEI.
- **On October 2007, from 18 to 21**, I participated to the **III^o International Meeting Science and Cultural Heritage in the Mediterranean Area**. Diagnostics and conservation: experiences and proposals for a Risk Map, in Palermo. I submitted a poster with the title *“Cleaning of paper works with selective solvent methods”*.
- **From 16 to 20 September 2007** I participated to the **National Congress of Analytical Chemistry** in Viterbo. I submitted three papers with the titles: *“Black pigments: the diagnostics for their characterization”*; *“Restoration watercolour control by means of non-destructive testing”*; *Characterization of the pigments in some medieval illuminations by means of non-destructive analyses”*.
- **From 10 to 11 May 2007** I participated to the **International Conference Conservation Science** in Milan. I submitted a poster with the title *“Production and Characterization of Lead, Tin and Antimony Based Yellow Pigments”* then published in the Conference Proceedings.
- **From 28 February to 2 March 2007** I participated to the **V Archaeometry National Congress** in Florence. I submitted a paper with the title *“Colour and matter: lead, tin and antimony yellows”* then published in the Congress Proceedings.
- **On 16th December 2006** I participated to the restoration report of the Flag of the Confraternity of SS. Sacramento from Sutri Museum. The diagnostic analyses were reported on a panel and in a brochure.
- **On 26th June 2006** I participated to the Workshop on *“The Angel from Giotto’s Navicella in the Grotte Vaticane. Autopsy of a fragment”*. On this occasion I submitted a report on The diagnostic analyses.
- **From 1 to 3 February 2006** I participated to the **IV Archaeometry National Congress** in Pisa. I submitted a paper with the title *“Lead, tin and antimony yellows: the paintings by Nicolas Poussin and Carlo Saraceni”* then published in the Congress Proceedings.
- **On 17 June 2004** I gave a report with the title *“The colours and the marbles: the analytical scientific plan and some results”* within the Workshop: *“Data Bank of the paintings (wall mosaics and*

paintings, panel) and of the sculptures in Italy and Byzantium (IV-XV). Images sources, constitutive materials, execution techniques”.

- **On July 2002** I participated to the **XVIII International Congress “Science and Cultural Heritage: Mosaics – Culture, Technology, Conservation”** in Bressanone (Italy) with a report that was published in the Congress Proceedings.
- **In December 2001** I participated to the **VI International Meeting “Cultural heritage and quality”**. On this occasion I presented an oral report that was published on the Meeting Proceedings.
- **In December 2000** I participated to the **V International Meeting “Training, occupation and cultural heritage”** organized in Salerno (Italy). On this occasion I presented an oral report that was published on the Meeting Proceedings, with the title: “L’indagine diagnostica nello studio dei Beni Culturali, l’esperienza del laboratorio di Diagnostica per la Conservazione e il Restauro dell’università della Tuscia (Viterbo)”.
- **On 15 March 2000** I gave a relation with the title: “Marbles and Pigments”, on the occasion of the workshop: “Tuscia University in the world – Study Survey in Mandalya Gulf”. The workshop took place in Mendel lecture hall of the Tuscia University.
- **On December 1999** I participated to the **IV International Meeting “New technologies and Cultural Heritage”** organized by DRI in Torino (Italy). On this occasion I presented an oral report that was published on the Meeting Proceedings, with the title: “Applicazione di tecnologie avanzate per la caratterizzazione delle tessere musive dell’oratorio di S. Giovenale nella cattedrale di Narni”.

RESEARCH PROJECTS

- | | |
|---------------------------|--|
| 2023-2024 | ▪ Leader of the project COLD (The Museum of Colle del Duomo in Viterbo within the homonymous monumental complex: integrated approach to the conservation, valorisation, monitoring, 3D documentation and multispectral imaging, all aiming to evaluate the microclimate and restoration impact on different typologies of artifacts) inside the PE 5 CHANGES “Cultural Heritage Active Innovation for Sustainable Society”, Spoke 7. |
| 2021-2022 | ▪ Leader of WP3 of the project CREDI inGradi (Unitus’s Cultural Re-Discovering through Digital Innovation: S.Maria in Gradi). InGradi HMI-Raman - Processing of original digital contents on the historical and architectural memory of the Plexus of Santa Maria in Gradi with the aim of creating new in-depth knowledge thanks to cutting-edge tools for the analysis of materials with different diagnostic technologies, including multispectral imaging and Raman spectroscopy. |
| 2021-2023 | ▪ Leader of the project “EVER” (Extracts from wood in ancient old-growth forests for a possible innovative use in the restoration of cultural heritage), founded by Lazio Region. |
| 2021-2023 | ▪ Participation, as leader of the University of Tuscia partner, to the project COLLINE (Stone conservation using essential oils and nanotechnologies) coordinated by Dr. Valeria Spizzichino of ENEA Casaccia. |
| 2019-2020 | ▪ Participation to the project “Le Porte della Tuscia” , founded by Lazio Region (Grant of 24/04/2019, published on BURL nr. 37 of 17/05/2019). |
| 2020-2022 | ▪ Participation to the EU project JPICH-Conservation, Protection and Use Call, Application nr. JPICH-0127 , title: “Enhancement of Heritage Experiences: the Middle Ages. Digital Layered Models of Architecture and Mural Paintings over Time” (EHM) . Approved on February 8th 2020. |
| 2020-2021 | ▪ Participation to the project “Roma Hispana. Inteligencia Artificial y Nuevas Tecnologías aplicadas al estudio, la musealización y la puesta en valor de Patrimonio Cultural español en Roma: la Spezieria di Santa Maria della Scala”, coordinated by Prof. Maria Luisa Vázquez de Ágredos-Pascual of Universidad de Valencia (Spain). |
| 2019-2021 | ▪ Participation, as Scientific responsible for University of Tuscia, to the project Steadypick (New technologies for cultural heritage diagnostics and documentation) , that received the grant by Lazio Region (August 27th 2019, nr G11238 POR FESR Lazio 2014-2020. Project T0002E001-A0199 - “Cultural Heritage and Tourism” approved with Decision nr G16395/2017. Nr. Prot. A0199-2018-17547). |
| July 2018 – February 2020 | ▪ Participation to the project of the Center of Excellence: Technological District for Cultural Heritage of Lazio Region . The project, involving all Lazio’s universities, Italian CNR, ENEA and |

INFN, received approval from the Region on 23, February, 2018. Within the District, I am co-ordinator of the WP5 of the project ADAMO (Technologies for the Analysis, Diagnostics, and Monitoring for the conservation and restoration of cultural heritage).

- June 2016 – June 2019
- Participation to the European project (Horizon2020 - 700191) STORM (Safeguarding Cultural Heritage through Technical and Organisational Resources Management).
- 2013-2015
- Participation to the project "Study of diffusion of persistent organic pesticides in rural environment and evaluation of risks to exposure for workers of agricultural-zoo technic sector, by cellular models". The project has been founded by Istituto Nazionale per l'Assicurazione contro gli Infortuni sul Lavoro (INAIL). In particular, I executed the FT-IR spectroscopy investigation on wood samples to reveal the presence of pesticides (HCHs).
- 2014-2015
- Participation to the **Egyptian-Italian Environmental Cooperation Programme**: Institutional Support to the Ministry of Antiquities - ex Supreme Council of Antiquities for management, maintenance and Permanent opening to the cultural tourism the Medinet Madi Archaeological Park (ISSEMM-3).
- 2014-2015
- Participation to the project Valorisation and touristic enjoyment of the Royal Palace in Palermo (Italy) CIG 4397878BB9; CUP E72J12000020006. The project has been financed.
- June 2013 – June 2018
- Participation to the European Project EMAP (European Music Archaeology Project, N° 536370-CU-1-2013-IT-CULTURE-VOL11) concerning the archaeometric study of the ancient metal alloy musical instruments.
- 2011-2016
- Participation to the project PRIN2011, title Rupestrian art and habitat in Cappadocia (Turkey) and in central and southern Italy. Rock, excavated architecture, painting: between knowledge, preservation and enhancement, co-founded by the Italian Ministry of University.
- 2006-2019
- I am going to participate to the project "Rock paintings in Cappadocia. For a project of knowledge, conservation and valorisation of the church of the Forty Martyrs at Şahinefendi and its territory", directed by Prof.ssa Maria Andaloro.
- 2010
- I participated to a research project on the study and conservation of several sculptures in Palazzo Venezia at Rome, funded by Banca Intesa. I performed the diagnostic analysis of some *terracotta* sculptures from the permanent exhibition of the Museum as preliminary investigations before the restoration.
- I participated to a research project, financed by Lazio Region, with the title: Habitat rupestre nel Lazio e in Cappadocia. Indagini diagnostiche e monitoraggio dello stato di conservazione della Grotta del Salvatore a Vallerano, directed by Prof.ssa Maria Andaloro.
- 2009
- I participated to a research project with the title: "The Palazzo Venezia Museum in Rome and its sculpture collection", Getty Foundation. I performed the diagnostic analysis of some *terracotta* sculptures from the permanent exhibition of the Museum as preliminary investigations before the restoration.
- 2007-2009
- I participated to a research project funded by Lazio Region with the title "*Censimento, documentazione e studio delle emergenze pittoriche- monumentali e mobili- a Fondi in età medievale nell'ambito della pittura del Lazio meridionale e di Roma*", directed by Prof.ssa Maria Andaloro.
- 2004-2005
- I participated to a project PON (Project Objective National) carried out in Calabria. This project was organized by the inter-university association CIRTER and it provided three high courses and several research activities. The association was made up by Siena, Perugia Roma "La Sapienza" and Viterbo Universities and some Private Societies.
- I carried out two lesson modules with the titles: Diagnostic Methodologies III and Techniques and analysis instruments of the materials and of their deterioration.
- Within the project I carried out a plan of analyses aimed to the study of wall paintings materials of some chosen sites (Rossano Calabro Panaghia and San Marco Churches, San Demetrio Corone S.

Adriano Church, Santa Severina Castle and Baptistery.

1997-2005 ▪ I participated to the project “For a data bank of wall paintings and mosaics of Asia Minor (4th-15th centuries): images, materials, techniques of execution, funded by Tuscia University, Ministry of Foreign Affairs and Ministry of University, directed by Prof.ssa Maria Andaloro. The project concerned the island of Küçük Tavşan Adası and many other sites in the territory of the Mandalya's gulf.

1998-2000 ▪ I participated to the agreement between the Ministry for Arts and Cultures and Tuscia University about the research on the “Fragmentary Paintings of the collapsed ribbed vaults of the S. Francesco of Assisi Superior Basilica”. I participated with the instruments of the Diagnostic Laboratory of Tuscia University.

Memberships

▪ **I am member of the Italian Chemical Society for the sub-division Chemistry for the Environment and Restoration.**

▪ I am a Member of the Italian Association of Archaeometry (AIAR), founded in 1993. The aim of this Association is to promote and to develop the research activities for the study and the safeguard of the Cultural Heritage through the application of scientific methodologies.

▪ I am a member of the Italian Society for Optics and Photonics (SIOF). This Society was created in order to promote the research activities related to optics and photonics and to spread the knowledge of these branches of learning in Italy.

▪ I have been member of SPIE (The international society for optics and photonics) from May 2021 to May 2024.

▪ From June 2013 to December 2020 I was member of the Spin-off society SMARTART (<http://www.smartartunitus.it/>).

▪ I am member and coordinator of the Research Group **Study of materials and technique in Cultural Heritage artworks: diagnostics, conservation, restoration and environmental monitoring (MATCH)**, approved on March 15th 2021 with deliberation 183 of DEIM Department. The research group is constituted by professor and researchers of University of Tuscia and of University of Valencia (Spain).

▪ I am member and coordinator of the Research Group **Diagnostic methods for investigating historical photographic films**, approved on December 19th 2018 with deliberation 138 of DEIM Department. The research group is constituted by researchers of University of Tuscia and of Aerofototeca Nazionale in Roma (MIBAC).

▪ I am member and coordinator of the Research Group for the **Study of ancient manuscripts for the characterization of the materials and for the development of new methods of cleaning and consolidation through innovative approaches and eco-compatible products**. The group was approved on June 15th 2018 with deliberation 132 of DEIM Department. It is constituted by members of the University of Tuscia and of University of Iasi (Romania).

▪ I am member and coordinator of the Research Group **Spectroscopic Analysis applied to the study of surface alterations of materials, mainly wood, and coatings for wood**. The group also works on the characterization of painting materials and restoration of wood artworks. It was approved on September 13 2018 with deliberation 134 of the DEIM Department. The group is composed by members of the University of Tuscia and of Sapienza University of Rome.

▪ I am member of the Research Group **Development of new methodologies for the non-invasive diagnostics of paintings**. The group, coordinated by Prof. Giuseppe Calabrò, was approved on September 13, 2018 with deliberation 134 of the DEIM Department. The group is composed by members of the University of Tuscia, University of Perugia, University of Calabria, University of L'Aquila and the society Proficolore in Rome.

▪ From May 2011 to May 2016 I was member of the municipal council in Acquapendente (VT) with responsibility for youth policies, equal opportunities, relations with universities and relations with museum facilities.

TEACHING ACTIVITIES

2025-2026

Academic year 2025/2026: I received appointment for:

- Diagnostics and spectroscopy for Cultural Heritage (CHIM/01 – 8CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02) and at the two-year course in Archaeology and Art History – Safeguard and Valorisation (LM89).

- Chemistry of restoration (CHIM/12 – 8 CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02).
- Techniques for the study of Materials (ING-IND/22) at the first level three-years course of Industrial Engineering (L9 – 3 CFU).
- Techniques for Material Characterisation 3CFU for the master degree course in Mechanical Engineering (international course in English language).
- Fundamental of Chemistry 3CFU for the professional course in techniques for Green Building (LP-01)
- Polymer Chemistry Module (CHIM/12 - 3CFU) for the master degree course in Mechanical Engineering (international course in English language).

2024-2025

Academic year 2024/2025: I received appointment for:

- Diagnostics and spectroscopy for Cultural Heritage (CHIM/01 – 8CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02) and at the two-year course in Archaeology and Art History – Safeguard and Valorisation (LM89).
- Chemistry of restoration (CHIM/12 – 8 CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02).
- Techniques for the study of Materials (ING-IND/22) at the first level three-years course of Industrial Engineering (L9 – 3 CFU).
- Techniques for Material Characterisation 3CFU for the master degree course in Mechanical Engineering (international course in English language).
- Fundamental of Chemistry Module 3CFU for the professional course in techniques for Green Building (LP-01)
- Polymer Chemistry Module (CHIM/12 - 3CFU) for the master degree course in Mechanical Engineering (international course in English language).

2023-2024

Academic year 2023/2024: I received appointment for:

- Diagnostics and spectroscopy for Cultural Heritage (CHIM/01 – 8CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02) and at the two-year course in Archaeology and Art History – Safeguard and Valorisation (LM89).
- Chemistry of restoration (CHIM/12 – 8 CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02).
- Laboratory of Materials Science (ING-IND/22) at the first level three-years course of Industrial Engineering (L9 – 3 CFU).
- Techniques for Material Characterisation 3CFU for the master degree course in Mechanical Engineering (international course in English language)
- Fundamental of Chemistry Module 3CFU for the professional course in techniques for Green Building (LP-01)

2022-2023

Academic year 2022/2023: I received appointment for:

- Diagnostics and spectroscopy for Cultural Heritage (CHIM/01 – 8CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02) and at the two-year course in Archaeology and Art History – Safeguard and Valorisation (LM89).
- Chemistry of restoration (CHIM/12 – 8 CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02).
- Laboratory of Materials Science (ING-IND/22) at the first level three-years course of Industrial Engineering (L9 – 3 CFU).

- Participation, as teacher, to the MÁSTER PROPIO EN ANÁLISIS Y AUTENTIFICACIÓN DE OBRA DE ARTE (IV EDICIÓN) UNIVERSITAT DE VALÈNCIA. MODULO I: Análisis y diagnóstico para la Autentificación de Obra de Arte: caracterización físico-química y fotografía aplicada (25 Créditos).

I participated to the organization of the first Summer School of CGA (Center for Complex Instruments of Tuscia University) that will be in September 2018 from 10 to 14. I am member of the Organizing Committee and teacher of XRF Spectroscopy

2021-2022

Academic year 2021/2022: I received appointment for:

- Diagnostics and spectroscopy for Cultural Heritage (CHIM/01 – 8CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02) and at the two-year course in Archaeology and Art History – Safeguard and Valorisation (LM89).

- Chemistry of restoration (CHIM/12 – 8 CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02).
- Laboratory of Materials Science (ING-IND/22) at the first level three-years course of Industrial Engineering (L9 – 3 CFU).

- Participation, as teacher, to the **MÁSTER PROPIO EN ANÁLISIS Y AUTENTIFICACIÓN DE OBRA DE ARTE (III EDICIÓN) UNIVERSITAT DE VALÈNCIA. MODULO I: Análisis y diagnóstico para la Autentificación de Obra de Arte: caracterización físico-química y fotografía aplicada (25 Créditos).**

November 2021

Responsible for the University of Tuscia - DEIM Department of the Training Camp "From Diagnostics to museum use: the works of the Museo del Colle del Duomo in Viterbo" funded by the Lazio Region as part of the human capital activities of the Lazio DTC (Cultural Heritage and Activities Technological District - Center of Excellence). The organization involved various activities starting from June/July 2021. Furthermore, after the completion of the CT week it was necessary to prepare further material to be provided to the students of the course. In addition to the organization, the undersigned also took care of the teaching and practical exercises of the TC

2020-2021

Academic year 2020/2021: I received appointment for:

- Diagnostics and spectroscopy for Cultural Heritage (CHIM/01 – 8CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02) and at the two-year course in Archaeology and Art History – Safeguard and Valorisation (LM89).
- Chemistry of restoration (CHIM/12 – 8 CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02).
- Laboratory of Materials Science (ING-IND/22) at the first level three-years course of Industrial Engineering (L9 – 3 CFU).

- Participation, as teacher, to the **MÁSTER PROPIO EN ANÁLISIS Y AUTENTIFICACIÓN DE OBRA DE ARTE (II EDICIÓN) UNIVERSITAT DE VALÈNCIA. MODULO I: Análisis y diagnóstico para la Autentificación de Obra de Arte: caracterización físico-química y fotografía aplicada (25 Créditos).**

2019-2020

Academic year 2019/2020: I received appointment for:

- Diagnostics and spectroscopy for Cultural Heritage (CHIM/01 – 8CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02) and at the two-year course in Archaeology and Art History – Safeguard and Valorisation (LM89).
- Chemistry of restoration (CHIM/12 – 8 CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02).
- Laboratory of Materials Science (ING-IND/22) at the first level three-years course of Industrial Engineering (L9 – 3 CFU).

- Participation, as teacher, to the **MÁSTER PROPIO EN ANÁLISIS Y AUTENTIFICACIÓN DE OBRA DE ARTE (I EDICIÓN) UNIVERSITAT DE VALÈNCIA. MODULO I: Análisis y diagnóstico para la Autentificación de Obra de Arte: caracterización físico-química y fotografía aplicada (25 Créditos).**

April 2019

From 8th to 12th of April 2019 I was teacher at Valencia University within the framework of Erasmus+ Mobility Program.

2018-2019

Academic year 2018/2019: I received appointment for:

- Diagnostics for Cultural Heritage (CHIM/01 – 8CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02) and at the two-year course in Archaeology and Art History – Safeguard and Valorisation (LM89).
- Chemistry of restoration (CHIM/12 – 8 CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02).
- Laboratory of Materials Science (ING-IND/22) at the first level three-years course of Industrial Engineering (L9 – 3 CFU).

2017-2018

Academic year 2017/2018: I received appointment for:

- Diagnostics for Cultural Heritage (CHIM/01 – 8CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02) and at the two-year course in Archaeology and Art History – Safeguard and Valorisation (LM89).
- Chemistry of organic materials and of restoration (CHIM/12 – 8 CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02).
- Laboratory of Materials Science (ING-IND/22) at the first level three-years course of Industrial Engineering (L9 – 3 CFU).

September 2018

I participated to the organization of the first Summer School of CGA (Center for Complex Instruments of Tuscia University) that will be in September 2018 from 10 to 14. I am member of the Organizing Committee and teacher of XRF Spectroscopy

2016-2017

Academic year 2016/2017: I received appointment for:

- Diagnostics for Cultural Heritage (CHIM/01 – 8CFU) at the advanced five-years course in Conservation and Restoration of Cultural Heritage (LMR/02) and at the two-year course in Archaeology and Art History – Safeguard and Valorisation (LM89).
- Basic Chemistry (CHIM/06 – 8 CFU) at the first level three-years course of Science and Technology for the Conservation of Forests, Nature and Environment (SFN) (L-25);
- Laboratory of Materials Science (ING-IND/22) at the first level three-years course of Industrial Engineering (L9 – 3 CFU).
- School-Work Project : 50 hours from 5 to 16 of June 2017. Title of the project: Laboratory of Materials Science. I followed 29 students of the secondary school (Ruffini of Viterbo) in the practical activities.

2015-2016

Academic year 2015/2016: I received appointment for:

- Diagnostics for Cultural Heritage (CHIM/01 – 8 CFU) at the advanced two-year course in Archaeology and Art History – Safeguard and Valorisation.
- School-Work Project: 20 hours from February to May 2016. Title of the project: Between Science and Art: diagnostics and conservation of cultural heritage in the territory of Tuscia. I followed 20 students of the secondary school (Leonardo da Vinci of Acquapendente) in the practical activities.

2014-2015

Academic year 2014/2015: I received appointment for Material Science (ING-IND/22 – 8 CFU) at the advanced two-year course in Archaeology and Art History – Safeguard and Valorisation.

2013-2014

Academic year 2013/2014: I received the appointment for:

- Analytical Chemistry (8 CFU)
- Laboratory of analytical chemistry (2 CFU) at the three-year new base course L1-L43 (Conservation of Cultural Heritage).
- TFA course (Tirocini Formativi Attivi, classe A061). I taught: Diagnostics for restoration: pedagogical-didactic laboratories (SSD: CHIM/01) and Planning of didactic courses within the technologies for History of Art (SSD: CHIM/12).

2012-2013

Academic year 2012/2013: I received the appointment for:

- Analytical Chemistry (8 CFU)
- Laboratory of analytical chemistry (2 CFU) at the three-year new base course L1-L43 (Conservation of Cultural Heritage).

2011-2012

Academic year 2011/2012: I received the appointment for:

- Analytical Chemistry (8 CFU) at the three-year new base course L1-L43 (Conservation of Cultural Heritage)
- Chemistry applied to Conservation (4 CFU) at the new advanced two-year course LM89.
- Laboratory of analytical chemistry at the three-year base course L43 (4 CFU).
- Chemistry of the environment and of cultural heritage in the Specialization Course of Tuscia University.

2010-2011

Academic year 2010-2011: I received the appointment:

- Analytical Chemistry (8 CFU) at the three-year new base course L1 (Cultural Heritage)
- Chemistry applied to Conservation (4 CFU) at the new advanced two-year course LM89.
- Chemistry of the environment and of cultural heritage in the Specialization Course of Tuscia

University.

- 2009-2010** **Academic year 2009-2010:** I received the appointment for:
 - Analytical Chemistry (8 CFU) at the three-year new base course L1 (Cultural Heritage)
 - Analytical Chemistry (2 CFU) at the three-years new base course L43 (Technology for Cultural Heritage)
 - Chemistry applied to Conservation (4 CFU) at the new advanced two-year course LM89.
- 2008-2009** **Academic year 2008-2009:** I received the appointment for:
 - Analytical Chemistry (10 CFU) at the three-year base course 13
 - Analytical Chemistry (3 CFU) at the three-year base course 41 (Technology for Cultural Heritage).
- 2007-2008** **Academic year 2007-2008:** I received the appointment for:
 - Analytical Chemistry (10 CFU) at the three-year base course 13
 - Applied chemistry (CHIM/12, 5 CFU) at the advanced two-year course 95/s.
- 2006-2007** **Academic year 2006-2007:** I received the appointment for:
 - Analytical Chemistry (10 CFU) at the three-year base course 13
 - Applied chemistry (CHIM/12, 5 CFU) at the advanced two-year course 95/s.
- July 2007** I participated to the Summer School of Archaeology, Cultural Heritage and Territory organized by the Ministry of Education. The title of the summer school was: "To live the Cultural Heritage". On this occasion I gave a lesson on "The diagnostics for conservation and restoration" and I participated to the project synthesis round table.
- May-June 2004** I taught students of an IFTS course Applied Chemistry. The title of the course was: "Technician expert in cataloguing and diagnostics of monumental buildings according the standard ICR (Risk Map)".
- June-October 2004** I participated to a project PON (Project Objective National) carried out in Calabria. This project was organized by the inter-university association CIRTER and it provided three high courses and several research activities. The association was made up by Siena, Perugia Roma "La Sapienza" and Viterbo Universities and some Private Societies.
 I carried out two lesson modules with the titles: Diagnostic Methodologies III and Techniques and analysis instruments of the materials and of their deterioration.
 Within the project I carried out a plan of analyses aimed to the study of wall paintings materials of some chosen sites (Rossano Calabro Panaghia and San Marco Churches, San Demetrio Corone S. Adriano Church, Santa Severina Castle and Baptistery).

Activity as expert of on the subject

- Academic year 2000/2001: I was named as an expert on the subject Theory and techniques of architectural restoration.
- Academic year 1998/99: I was named as an expert on the following subjects: Science and technology of the materials; Information technology applied to the cataloguing of cultural heritage.
- Academic year 1991-1992: I was named as an expert on the following subjects: Product analysis; Applied chemistry; Chemistry technology and conservation of cellulose materials and of the textiles; Biology applied to Cultural Heritage; Chemistry of the environment; Chemistry deterioration and conservation technique of porous building materials and of the wall paintings; Chemistry for restoration; General physics.

ANNEXES

List of Publications 2022-2026 (Annex A)

Personal data I authorize the processing of my personal data pursuant to Legislative Decree 30 June 2003, n. 196 "Code regarding the protection of personal data".

The statements contained therein are declared truthful pursuant to articles 46 and 47 of the D.P.R. 445/2000.

Viterbo, January 22th, 2026

In Fede
Claudia Pelosi



ANNEX A: LIST OF PUBLICATIONS FROM 2022 TO 2026

The complete list of the indexed papers can be found on Scopus at the link:
<https://www.scopus.com/authid/detail.uri?authorId=22836449900>

- 1) R. Montanari, M.F. Alberghina, S. Schiavone, C. Pelosi, The Jesuit painting Seminario in Japan: European Renaissance technology and its influence on Far Eastern art. X-ray Spectrometry, 51(1), 2022, 64-85. DOI: 10.1002/xrs.3256.
- 2) C. Pelosi, G. Agresti, L. Lanteri, Imaging, spectroscopic and sample analysis of a 16th century canvas painting representing the Holy Trinity with Saints, European Journal of Science and Theology, February 2022, Vol.18, No.1, 177-188.
- 3) R. Montanari, N. Murakami, A. De Bonis, Ph. Colomban, M.F. Alberghina, C. Grifa, F. Izzo, V. Morra, C. Pelosi, S. Schiavone, The early porcelain kilns of Arita: Identification of raw materials and their use from the 17th to the 19th century, Open Ceramics, 9, 2022, 100217, pp. 1-16. <https://doi.org/10.1016/j.oceram.2021.100217>.
- 4) C. Colantonio, L. Lanteri, A. Ciccola, I. Serafini, P. Postorino, E. Censorii, D. Rotari, C. Pelosi. Imaging Diagnostics Coupled with Non-Invasive and Micro-Invasive Analyses for the Restoration of Ethnographic Artifacts from French Polynesia, Heritage, 5(1), 2022, pp. 215-232. DOI: 10.3390/heritage5010012.
- 5) T. Cavaleri, C. Pelosi, M. Ricci, S. Laureti, F.P. Romano, C. Caliri, B. Ventura, S. De Blasi, M. Gargano, IR Reflectography, Pulse - Compression Thermography, MA - XRF, and Radiography: A Full - Thickness Study of a 16th - Century Panel Painting Copy of Raphael. Journal of Imaging, 8, 2022, 150. <https://doi.org/10.3390/jimaging8060150>.
- 6) S. Annarilli, A. Casoli, C. Colantonio, L. Lanteri, A. Marseglia, C. Pelosi, S. Sottile, A Multi-Instrument Analysis of the Late 16th Canvas Painting, "Coronation of the Virgin with the Saints Ambrose and Jerome", Attributed to the Tuscany-Umbria Area to Support the Possibility of Bio-Cleaning Using a Bacteria-Based System, Heritage, 5(4), 2022, 2904-2921. <https://doi.org/10.3390/heritage5040150>.
- 7) T. Cavaleri, C. Pelosi, R. Giustetto, A. Andreotti, I. Bonaduce, G. Calabrò, C. Caliri, C. Colantonio, P. Manchinu, S. Legnaioli, A. Piccirillo, F. P. Romano, B. Ventura, G. Ferraris di Celle, M. Gargano, The northern-Italy Renaissance in a panel by Defendente Ferrari: A complete study with a multi-analytical investigation, Journal of Archaeological Science: Reports, 46 (2022), 103669, pp. 1-16. DOI: 10.1016/j.jasrep.2022.103669.
- 8) A. Lo Monaco, G. Agresti, G. Serusi, A.R. Taddei, C. Pelosi. History and Techniques of a Polychrome Wooden Statue, How an Integrated Approach Contributes to Resolving Iconographic Inconsistencies. Heritage, 5(3), 2022, 2488-2503. DOI10.3390/heritage5030129.
- 9) R. Vettrano, V. Valentini, P. Pogliani, M. Ricci, S. Laureti, S. Calvelli, G. Messina, L. Lanteri, C. Pelosi. Innovative diagnostics through Hypercolorimetric Multispectral Imaging and Pulse-compression Thermography to support the restoration of a 16th wall painting in Palazzo Gallo (Bagnaia, Italy). 2022 IMEKO TC-4 International Conference on Metrology for Archaeology and Cultural Heritage University of Calabria, Italy, October 19-21, 2022, 90-95.
- 10) M. Ricci, S. Laureti, G. Capriotti, G. Curini, L. Lanteri, G. Lepore, C. Pelosi, P. Pogliani, P. Roma, M.C. Tomassetti. Pseudo-noise pulse compression thermography of the Raffaellino del Colle "Sacra famiglia con San Giovanni Battista" during painting restoration. 2022 IMEKO TC-4 International Conference on Metrology for Archaeology and Cultural Heritage University of Calabria, Italy, October 19-21, 2022, 426-431. Scopus id=2-s2.0-85150653180.
- 11) C. Pelosi, L. Lanteri, B. Blanco, Monitoraggio microclimatico nel Museo della Città e del Territorio di Narni (Terni, Italia): esigenze di fruizione ed aspetti di conservazione di dipinti su tavola. In: Il comfort indoor nel patrimonio edilizio esistente. Tecnologie e metodi per gli ambienti di vita, a cura di Elvira Nicolini. La scuola di Pitagora editrice, Napoli, 2022, pp. 351-366.
- 12) G. Bonifazi, L. Fiore, C. Pelosi, S. Serranti, Evaluation of plastic packaging waste degradation in

seawater and simulated solar radiation by spectroscopic techniques, *Polymer Degradation and Stability*, 207, 2023, 110215. DOI: <https://doi.org/10.1016/j.polyimdegadstab.2022.110215>.

13) C. Colantonio, C. Pelosi, G. Calabrò, V. Spizzichino, I. Partenzi, L. Lanteri. Scientific Investigation of Contemporary Pastel Painting by Roberto Sebastian Matta: Characterization of Original Materials through Multispectral Imaging and Spectroscopic Techniques. *Heritage* 2023, 6, 2541-2558. DOI: <https://doi.org/10.3390/heritage6030134>.

14) R. Vettraino, V. Valentini, P. Pogliani, M. Ricci, S. Laureti, S. Calvelli, R. Zito, L. Lanteri, C. Pelosi, Multi-Technique Approach by Traditional and Innovative Methodologies to Support the Restoration of a Wall Painting from the 16th Century at Palazzo Gallo in Bagnaia, Viterbo, Central Italy. *Buildings* 2023, 13, 783. <https://doi.org/10.3390/buildings13030783>.

15) I. Partenzi, M. Marconi, V. Vinciguerra, C. Pelosi, N. Fontani. Treatment of Acid Hydrolysis of a 1900 Large-Scale Composite Artwork by the Artist Roberto Sebastian Matta: Comparison between Traditional and Innovative Deacidifying Methodologies. *Heritage* 2023, 6, 2650-2663. <https://doi.org/10.3390/heritage6030140>.

16) F. Ambroselli, F. Canini, L. Lanteri, M. Marconi, C. Mazzuca, C. Pelosi, V. Vinciguerra, E. Wicks, L. Zucconi, A Hydroalcoholic Gel-Based Disinfection System for Deteriogenic Fungi on the Contemporary Mixed Media Artwork Poesia by Alessandro Kokocinski. *Heritage* 2023, 6, 2716-2734. <https://doi.org/10.3390/heritage6030144>.

17) L. Lanteri, S. Calandra, F. Briani, C. Germinario, F. Izzo, S. Pagano, C. Pelosi, A.P. Santo, 3D Photogrammetric Survey, Raking Light Photography and Mapping of Degradation Phenomena of the Early Renaissance Wall Paintings by Saturnino Gatti-Case Study of the St. Panfilo Church in Tomimparte (L'Aquila, Italy), *Applied Sciences*, 13(9), 5689, <https://doi.org/10.3390/app13095689>.

18) S. Ferrarese, D. Bertoni, A. Golzio, L. Lanteri, C. Pelosi, A. Re, Indoor Microclimate Analysis of the San Panfilo Church in Tomimparte, Italy. *Applied Sciences* 2023, 13(11), Article Nr. 6770. <https://doi.org/10.3390/app13116770>.

19) L. Bonizzoni, S. Caglio, A. Galli, L. Lanteri, C. Pelosi, Materials and Technique: The First Look at Saturnino Gatti, *Applied Sciences* 2023, 13(11), Article Nr. 6842. <https://doi.org/10.3390/app13116842>.

20) M. Zuenà, L. Baroni, V. Graziani, C. Pelosi, L. Tortora, L. Valbonetti, A. Sodo. Diving into colours: A multi-analytical approach to a 16th century drawing by Gherardo Cibo, *Vibrational Spectroscopy*, 127, 2023, article nr. 103561, pp. 1-8. <https://doi.org/10.1016/j.vibspec.2023.103561>.

21) G. Rubino, A. Lo Monaco, L. Lanteri, C. Pelosi, Improving the Technical Characteristics of Untreated and Heat-Treated Ayous Wood against Accelerating Ageing by Testing Two Application Modalities of an Innovative Polyurethane Coating for Outdoor Uses. *Coatings*, 13(8), 2023, 1312, pp. 1-15. <https://doi.org/10.3390/coatings13081312>.

22) C. Colantonio, L. Lanteri, R. Bocci, V. Valentini, C. Pelosi. "A Woman Clothed with the Sun": The Diagnostic Study and Testing of Enzyme-Based Green Products for the Restoration of an Early 17th Century Wall Painting in the Palazzo Gallo in Bagnaia (Italy). *Applied Sciences* 2023, 13, 12884, pp. 1-16. <https://doi.org/10.3390/app132312884>.

23) A. Ceci, L. Lanteri, C. Pelosi, P. Pogliani, S. Sottile. Analysis of materials of wax Christ-children from the Monastery of Santa Rosa in Viterbo. 2023 IMEKO TC-4 (open access) International Conference on Metrology for Archaeology and Cultural Heritage University of Roma 3, Italy, October 19-21, 2023, pp. 468-473. DOI: 10.21014/tc4-ARC-2023.089.

24) A. Paucecch, L. Lanteri, F. Montozzi, P. Pogliani, C. Pelosi. Study and restoration of the Sacra Conversazione by Lorenzo Berrettini and experimental tests to evaluate the application of diammonium phosphate as consolidant for the wall painting. 2023 IMEKO TC-4 (open access) International Conference on Metrology for Archaeology and Cultural Heritage University of Roma 3, Italy, October 19-21, 2023, pp. 742-747. DOI: 10.21014/tc4-ARC-2023.138.

25) E. Testa, L. Lanteri, G. Capobianco, G. Bonifazi, S. Serranti, F. Montozzi, P. Pogliani, C. Pelosi. The use of micaceous pigments for the chromatic reintegration of the gilded stuccoes in the Lante della Rovere chapel of Palazzo Orsini in Bomarzo. 2023 IMEKO TC-4 (open access) International Conference on Metrology for Archaeology and Cultural Heritage University of Roma 3, Italy, October 19-21, 2023, pp. 609-614. DOI: 10.21014/tc4-ARC-2023.114.

26) G. Capobianco, C. Pelosi, L. Lanteri, G. Bonifazi, O. Trotta, S. Serranti. Monitoring of protective products on Peperino stone using portable devices. 2023 IMEKO TC-4 (open access) International Conference on Metrology for Archaeology and Cultural Heritage University of Roma 3, Italy, October 19-21, 2023, pp. 603-608. DOI: 10.21014/tc4-ARC-2023.113.

- 27)** T. Cavaleri, C. Pelosi, C. Caliri, P.F. Romano, C. Colantonio, L. Lanteri, G. Calabrò, A. Piccirillo, B. Ventura, S. De Blasi, C. Riedo, D. Scalarone. Tracing the history of past treatments: A multi-analytical study of a 16th-century panel painting copy after Raphael. *Journal of Cultural Heritage* 2024, 66, 142-154.
- 28)** A. Lo Monaco, L. Lanteri, I. Rusu, C. Pelosi. The panel painting of Saint Mark by the Italian Renaissance artist 'The Balletta' a study for the restoration. *European Journal of Science and Theology*, April 2024, Vol. 20, No. 2, pp. 151-164.
- 29)** T. Rinaldi, C. Arrighi, A. Cirigliano, F. Neisje De Kruif, L. Lanteri, G. Porcelli, C. Pelosi, P. Pogliani, M.C. Tomassetti, Innovative, Multidisciplinary Approach for Restoring Paintings in Hypogeal Environment: Etruscan Tomba Degli Scudi (4th Century Bc) in Tarquinia. In: *Current Approaches, Solutions and Practices in Conservation of Cultural Heritage*. Gulder Emre, Ayberk Yilmaz, Paola Pogliani, Gulce Ogruc Ildiz, Rui Fausto (Eds.). Istanbul University Press, Istanbul (Turkey), March 2024, pp. 343-373. DOI :10.26650/B/AA9PS34.2024.006.
- 30)** C. Pelosi, F. Di Stasio, L. Lanteri, M. Zueni, M. Sardara, A. Sodo. The "Restoration of the Restoration": Investigation of a Complex Surface and Interface Pattern in the Roman Wall Paintings of Volsinii Novi (Bolsena, Central Italy). *Coatings*, 2024, 14(4), Article number 408. Doi: 10.3390/coatings14040408.
- 31)** D. Isola, H.-J. Lee, Y.-J. Chung, L. Zucconi, C. Pelosi, Once upon a Time, There Was a Piece of Wood: Present Knowledge and Future Perspectives in Fungal Deterioration of Wooden Cultural Heritage in Terrestrial Ecosystems and Diagnostic Tools. *Journal of Fungi*, 2024, 10, 366, pp. 1-74. <https://doi.org/10.3390/jof10050366>.
- 32)** R. Montanari, Ph. Colomban, M.F. Alberghina, S. Schiavone, C. Pelosi. European Smalt in 17th-Century Japan: Porcelain Decoration and Sacred Art. *Heritage* 2024, 7, 3080-3094. <https://doi.org/10.3390/heritage7060145>.
- 33)** P. Pogliani, C. Pelosi, L. Lanteri, G. Bordi. Imaging Based Techniques Combined with Color Measurements for the Enhancement of Medieval Wall Paintings in the Framework of EHEM Project. *Journal of Imaging* 2024, 10, 159, pp.1-18. <https://doi.org/10.3390/jimaging10070159>.
- 34)** R. Montanari, H. Murase, M.F. Alberghina, S. Schiavone, C. Pelosi. The Origin of Ko-Kutani Porcelain: New Discoveries and a Reassessment. *Coatings* 2024, 14, 1146. <https://doi.org/10.3390/coatings14091146>.
- 35)** L. Lanteri, I. Rusu, I. Dura, C. Pelosi. The potentiality of non-invasive diagnostics for the investigation of a Renaissance religious wall painting. *European Journal of Science and Theology*, October 2024, Vol. 20, No. 5, pp. 133-146.
- 36)** Isola, D.; Capobianco, G.; Tovazzi, V.; Pelosi, C.; Trotta, O.; Serranti, S.; Lanteri, L.; Zucconi, L.; Spizzichino, V. Biopatinas on Peperino Stone: Three Eco-Friendly Methods for Their Control and Multi-Technique Approach to Evaluate Their Efficacy. *Microorganisms* 2025, 13, 375. <https://doi.org/10.3390/microorganisms13020375>.
- 37)** Tovazzi, V.; Pelosi, C.; Falcucci, C.; Gittins, M.; Lanteri, L. Diagnostics and Analytical Campaign as Support for the Restoration Activity of a 14th-Century Mural Painting Representing the Virgo Lactans. *Heritage* 2025, 8, 64. <https://doi.org/10.3390/heritage8020064>.
- 38)** Montanari, R.; Colomban, P.; Alberghina, M.F.; Schiavone, S.; Pelosi, C. Kami Fumi-e: Japanese Paper Images to Be Trampled on—A Mystery Resolved. *Heritage* 2025, 8, 78. <https://doi.org/10.3390/heritage8020078>.
- 39)** Lanteri, L., Pelosi, C. Operational methods implemented for the monitoring of the artworks preserved in the Museum and the Conclave Hall of the "Colle del Duomo Museum Complex" of the Viterbo Diocese, Lazio – Italy. In: *Methodologies and Strategies for Cultural Heritage Protection and Conservation Against Climate Changes, Natural and Anthropogenic Risks*. Edited by Fabiana Di Ciaccio, Lidia Fiorini and Grazia Tucci. Springer Nature Switzerland AG, Cham, Switzerland, 2025, pp. 144-153.
- 40)** Lanteri, L.; Pelosi, C.; Pogliani, P. Three-Dimensional Ultraviolet Fluorescence Imaging in Cultural Heritage: A Review of Applications in Multi-Material Artworks. *J. Imaging* 2025, 11, 245. <https://doi.org/10.3390/jimaging11070245>.
- 41)** Montanari, R.; Murase, H.; Alberghina, M.F.; Schiavone, S.; Pelosi, C. The Origin of KO-KUTANI Porcelain—Part II: The Unearthed Secrets of the Hakuji Shallow Bowl. *Coatings* 2025, 15, 1007.

<https://doi.org/10.3390/coatings15091007>.

42) Pronti, L.; Romani, M.; Lanteri, L.; Bizzarri, F.; Colantonio, C.; Pelosi, C.; Ruberto, C.; Castelli, L.; Mazzinghi, A.; Spizzichino, V.; Cestelli Guidi, M. Non-invasive investigation of a 16th-century illuminated scroll: pigments, fillers, and metal-based decorations. *Minerals* 2025, 15(12), 1252; <https://doi.org/10.3390/min15121252>.

43) Pelosi, C.; Cristofori, M.; Lanteri, L.; Capriotti, G.; Casoli, A.; Potenza, M.; Sardara, M.; Sodo, A. A Reasoned Diagnostic Procedure to Support the Restoration of the 17th Century Stucco Altar Dedicated to St. Michael the Archangel in Barbarano Romano (Viterbo, Italy). *Coatings* 2026, 16, 142. <https://doi.org/10.3390/coatings16010142>.