Dr. Dafni Kyropoulou

PERSONAL INFORMATION	
SURNAME	KYROPOULOU
NAME	DAFNI
WORK ADDRESS	NATIONAL CENTRE FOR SCIENTIFIC RESEARCH 'DEMOKRITOS' INSTITUTE OF NANOSCIENCE AND NANOTECHNOLOGY BUILDING 8 | LABOTORY A08 NEAPOLEOS AND PATRIARCHOY GRIGORIOY V' POSTAL CODE 153 10, AGIA PARASKEVI, ATTIKI, GREECE
POSITION	**RESEARCH ASSOCIATE-PRINCIPAL INVESTIGATOR**
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	Dr.Kyropoulou Dafni

EDUCATION

2011-2016 : **Doctor of Philosophy (PhD), Isotopic geochemistry**
Aristotle University of Thessaloniki, Department of Geology / Institute of Nanoscience & Nanotechnology, Stable Isotope Unit, NCSR 'Demokritos'
Grade: Excellent

2006-2008 : **Master of Science (MSc), Conservation Science**
Cardiff University, School of History and Archaeology, Wales, United Kingdom
Grade: Good

2025-today : **Bachelor of Science (BSc), Computer Science**
School of Science and Technology (SST),
Hellenic Open University

2001-2005 : **Bachelor of Science (BSc), Conservation of Antiquities and Works of Art**
University of West Attica

ACADEMIC AND RESEARCH POSITIONS

2023-today Research-Associate (Postdoctoral Researcher): Institute of Nanoscience and Nanotechnology, Stable Isotope Unit, NCSR Demokritos

- Managed and implemented European-funded research programmes (NSRF) with a total budget of **€1.5M**.
- Applied information technologies and data-driven methods to cultural heritage datasets and collections.
- Conducted isotopic provenance and tracing studies on heritage materials (glass, marble, stone, and human and animal skeletal remains).
- Led project coordination activities, including deliverable preparation and authorship of peer-reviewed publications.
- Ensured effective communication and coordination with international research partners and stakeholders.

2021-2023 Heritage Scientist: Ministry of Culture/FORTH-IELS: Operational Programme "Competitiveness, Entrepreneurship and Innovation" 2014-2020
Research Project: CALLOS

- Developed digital data applications for cultural heritage datasets and collections.
- Applied data analysis and visualization techniques to support digital transformation initiatives.

2019-2021 Scientific Associate: National Centre for Scientific Research "Demokritos", Institute of Nanoscience and Nanotechnology

- Performed advanced statistical analysis on large isotopic and geochemical datasets.
- Designed data analysis workflows for the interpretation and validation of scientific results.
- Authored peer-reviewed publications and presented findings at international conferences.
- Communicated complex analytical results to both academic and applied audiences

2011-2015 and 2018-2021 Cultural Heritage Conservator: NSRF 2007–2020, Hellenic Ministry of Culture

- Participated in the conservation of cultural objects and collections, contributing scientific documentation and material assessment.

2009-2016 PhD Candidate/ Scientific Personnel: National Centre for Scientific Research "Demokritos", Institute of Materials Science

- Conducted extensive analytical experimentation, including sample preparation and multi-analytical characterization using SEM-EDX, XRD, cross-section analysis, and stable isotope analysis ($\delta^{13}C$,^{18}O) of historic mortar samples.
- Contributed to the design, implementation, and scientific reporting of research programmes, including the authorship of peer-reviewed publications.

RESEARCH EXPERIENCE

1. 03/ 2024- present : **Research Associate-Principal Investigator**

Research project:*"Zeidoron: Optimization and production of innovative products with superior characteristics in the bakery industry / MIS: 5217200"*
Funding body: Operational Programme Attica / General Secretariat for Research and Technology
Scientific coordinator: Dr. L. Leontiadis
Work description: Stable isotope analysis (^{13}C, ^{15}N, ^{18}O) of archaeological and cultural heritage materials, as well as tracing and authentication of bread products.
Project budget: €400,000
Employment contract: Fixed-term contract, under project code E-12688

2. 09/ 2023- 11/ 2024 (3 months): **Postdoctoral Researcher**
Research project:*"Development of an Innovative Specialized ROV with Tactile Robotic Arms for Underwater Archaeological Research (U-ArchaeoRoV)"* (T2EDK-03656 / MIS: 5134537)
Funding body: General Secretariat for Research and Technology
Scientific coordinator: Dr. E. Dotsika
Work description: Physicochemical analysis and conservation study of historical mortars and underwater archaeological materials; geotechnical characterization of mortars and ceramics.
Project budget: €406,650
Employment contract: Fixed-term contract, under project code E-12516

3. 09/ 2023- 04/ 2024 (8 months): **Postdoctoral Researcher**
Research project: *"Development of Innovative Technologies and Methodologies for the Promotion and Protection of Cultural Heritage Monuments 'Palimpsisto'"* (T2EDK-01894)
Funding body: EPAnEK 2014–2020 / General Secretariat for Research and Technology
Scientific coordinator: Dr. E. Dotsika
Work description: Development of digital tools to visualise cultural heritage data and analytical results.
Project budget: €800,000
Employment contract: Service contract, project code: E.E.-12474

4. 01/ 2020- 12/ 2021 (12 months): **Scientific Associate**
Research project:*"Restoration and Enhancement of the Ancient Theatre of Thasos – Phase B"*
Funding body: NSRF 2014–2020 / Ephorate of Antiquities of Kavala (E-E12341)
Scientific coordinator: Dr. E. Dotsika
Work description: Physicochemical analysis and stable isotope study (^{13}C, ^{18}O) of historical mortars and wall paintings; geotechnical characterization of mortars; proposals for the removal of later interventions; development of restoration mortar recommendations.
Project budget: €18,000
Employment contract: Service contract, project code: E.E.-12434

5. 01/ 2019- 12/ 2020 (12 μήνες): **Scientific Associate**

Research project:*"Upgrading of the Archaeological Site of Philippi – Sample Preparation, Laboratory Analyses, and Proposal for Mortar Composition"*
Funding body: NSRF 2014–2020 / Ephorate of Antiquities of Kavala (E-E12341)
Scientific coordinator: Dr. E. Dotsika
Work description: Physicochemical analysis and stable isotope study (^{13}C, ^{18}O) of historical mortars and wall paintings; geotechnical characterization of mortars; proposals for the removal of later interventions; development of restoration mortar recommendations.
Project budget: €11,000
Employment contract: Service contract, project code: E.E.-12341

6. **01/2013 – 12/2014 (12 months): Scientific Associate/ PhD Candidate**
Research Project: *"Development of Novel Durable Pozzolanic Mortars with Crushed Ceramics and Nanomaterials for the Restoration of Monuments and Historic Buildings"*
Funding: NSRF 2007–2013 / European Union (Project code: 11806)
Principal Investigator: Dr E. Dotsika
Project Budget: €11,000
Role and Responsibilities:
Conducted physicochemical characterization and conservation studies of historic mortars and wall paintings. Designed and evaluated restoration mortar formulations incorporating pozzolanic materials, crushed ceramics, and nanomaterials.
Employment contract: Service contract, project code:E.E.- 11806

7. 01/ 2013- 12/ 2014 (12 months): **Scientific Associate**
Research project: *"Upgrading of the Archaeological Site of Philippi – Sample Preparation, Laboratory Analyses, and Proposal for Mortar Composition"*
Funding body: NSRF 2014–2020 / Ephorate of Antiquities of Kavala (E-E12341)
Scientific coordinator: Dr. E. Dotsika
Work description: Physicochemical analysis and stable isotope study (^{13}C, ^{18}O) study of historical mortars and wall paintings; geotechnical characterization of mortars; proposals for the removal of later interventions; development of restoration mortar recommendations.
Project budget: €11,000
Employment contract: Service contract, project code: E.E.-12341

8. 01/ 2011- 12/ 2013 (24 months): **Scientific Associate**
Research project: *"Restoration Study of the Wall Painting at the Holy Monastery of Timios Prodromos, Serres"*
Funding body: NSRF 2007–2013 / Ephorate of Antiquities of Kavala
Scientific coordinator: Dr. E. Dotsika
Work description: Physicochemical analysis and stable isotope study (^{13}C, ^{18}O) of historical mortars and wall paintings; proposals for the removal of later interventions; development of restoration mortar recommendations.
Project budget: €8,000
Employment contract: Service contract (titlos ktesis), project code: E.E.-1786

9. 01/ 2011- 12/ 2013 (24 months): **Scientific Associate / PhD Candidate**

Research project:*"Stabilization and restoration of the Eastern fortification walls of Drama."*
Funding: NSRF 2007–2013 / Ephorate of Antiquities of Kavala
Scientific Supervisor: Dr. E. Dotsika
Description of work: Physicochemical analysis, stable isotope study (^{13}C, ^{18}O) of historical mortars and wall paintings; development of restoration mortar proposals.
Project budget: €5,000
Employment contract: Service contract, code: E.E.-1635

10. 01/ 2011- 12/ 2013 (24 months) : **Scientific Associate /PhD Candidate**
Research project *"Stabilization and restoration of the fortification of Anaktoupoli, N. Peramos, Kavala."*
Funding: NSRF 2007–2013 / Ephorate of Antiquities of Kavala
Scientific Supervisor: Dr. E. Dotsika
Work description: Physicochemical analysis and stable isotope study (^{13}C, ^{18}O) of historical mortars and wall paintings; development of restoration mortar proposals.
Project budget: €5,000
Employment contract: Service contract, code: E.E.-1635

RESEARCH INTERESTS

My research centres on fundamental and applied research in Isotopic Geochemistry, with particular emphasis on cultural heritage, materials science, environmental studies, environmental and cultural evolution, as well as cultural informatics.

Main research areas:

1. **Stable isotope research (^{2}H, ^{18}O, ^{34}S, $^{18}O(SO_4)$, ^{13}C, $^{18}O(CO_2)$, ^{11}B, $^{87}Sr/^{86}Sr$) applied to:**
   - palaeoenvironmental reconstruction,
   - provenance studies of raw materials, and
   - investigation of deterioration processes affecting ancient monuments and artefacts**.**
2. **Cultural Informatics:** Development of databases and software tools for the digitization and management of cultural heritage objects and collections.
3. **Data Analytics and Python Development:** Design and implementation of analytical workflows, data-processing pipelines, and custom Python-based tools for cultural heritage, materials science, and isotopic datasets.

In detail:
- Assessment of weathering and alteration processes affecting ancient, historical, and modern cultural heritage materials.
- Characterization and technological assessment of ancient and historic construction and utilitarian materials, including marbles, mortars, and glass.
- Marble provenance determination using carbon and oxygen isotopes (^{13}C, ^{18}O), combined with integrated ^{18}O–MGS analytical approaches.
- Diagnosis and assessment of deterioration processes in ancient and historic materials, alongside the development and evaluation of conservation materials.
- Study of isotopic fractionation of O, H, C, S, N, and Sr in organic and environmental samples for palaeoenvironmental and palaeodietary reconstruction.

- Determination of stable isotope compositions (^{2}H, ^{18}O, ^{34}S, $^{18}O(SO_4)$, ^{13}C, ^{18}O, ^{11}B, $^{87}Sr/^{86}Sr$) in waters, sediments, and rocks to investigate hydrological systems, pollution sources, and past environmental conditions.
- Development of cultural heritage management databases using SQL and Python.
- Data analytics workflows for processing, visualizing, and interpreting physicochemical and isotopic datasets (Python, NumPy, Pandas, SciPy, Matplotlib).
- Python development for automating analytical procedures, integrating multi-source datasets, and building reproducible research pipelines.

PRESS ANNOUNCEMENTS

May 2009 The first Clare Hampson Scholarship Award, ICON News 22

SCHOLARSHIPS AND AWARDS

2009 **ICON :** Clare Hampson Fund Publication Grant
The Institute of Conservation: Ερευνητική Υποτροφία £3000

2010 **COST D42** : Chemical interactions STSM, NCSR-ICN ITALY

CERTIFICATIONS

- **Operating Systems:** Windows
- **Software:** Microsoft Word, Excel, Access, PowerPoint; Internet applications; E-mail; MS Paint, MS 3D Paint; Adobe Acrobat (Pro); Adobe Photoshop
- **Typing:** Touch typing
- **Certifications:** ECDL (European Computer Driving Licence)

Programming Languages

- **Python**, **SQL** – Certified user (Workearly)

AI-Assisted Scientific Writing Tools

- Grammarly Pro
- Paperpal
- ChatGPT

Languages

- **English:** Excellent command

GRANTS & FUNDING (SELECTED)

- **Principal Investigator**, Zeidoron Project, €400,000 (GSRT, 2024–2026)
- Senior Researcher, Palimpsisto, €800,000 (EPAnEK)
- Senior Researcher, U-ArchaeoRoV, €406,650 (GSRT)
- Multiple NSRF-funded heritage science projects (2011–2023)

LABORATORY AND INFRASTRUCTURE LEADERSHIP

- Scanning Electron Microscopy with Energy-Dispersive X-ray Analysis (SEM–EDX):
  Advanced microstructural and elemental characterization, including full sample preparation workflows (embedding, polishing, coating), phase identification, and quantitative/semi-quantitative compositional analysis of heterogeneous materials.
- X-ray Diffraction (XRD):
  Mineralogical and phase analysis of crystalline materials, including sample preparation, data acquisition, and interpretation for the identification of raw materials, alteration products, and technological signatures.
- Cross-Section Analysis:
  Preparation and microscopic examination of stratigraphic cross-sections to investigate material layering, manufacturing techniques, and degradation processes in archaeological and historic materials.
- Stable Isotope Analysis:
  End-to-end expertise in sample preparation, measurement, and data interpretation for oxygen (O), hydrogen (H), carbon (C), sulfur (S), and nitrogen (N) isotopes, applied to biomaterials, archaeological materials, environmental samples, and industrial materials.

MEMBERSHIPS

- ICON – Institute of Conservation (UK)
- International Institute for Conservation of Historic and Artistic Works (IIC)
- Geochemical Society
- European Association of Archaeologists (EAA)

PUBLICATIONS

A. DOCTORAL DISSERTATION

Kyropoulou, D. (2016). Technological transition and pathology of historical mortars- A stable isotope study. Aristotle University of Thessaloniki/NCSR, Stable Isotope Unit
Supervisors: Dr. Elissavet Dotsika, Prof. Dr. Vasileios Christaras, Prof. Dr. Vasileios Melfos

B. MSc THESIS

Kyropoulou D., (2008), A technical examination on the effects of deposited dust on paper: the example of Trinity College Library, Cardiff University
Supervisor: Professor Ian Freestone

C.1 Publications in peer-reviewed journals (IF> 1, full-texts)

1. **Kyropoulou D**., Karalis P., Dotsika E., Rizou F., Drosou A., Tzovaras D., Mazarakis Ainian A., Kolofotia E., (2024), 3D geospatial platform and AI tour application for visualizing archaeological, analytical, and conservation data: the case of the Vryokastro archaeological ensemble, Kythnos Island. Journal of Archaeological Science Reports, 68, 105480. https://doi.org/10.1016/j.jasrep.2025.105480.
2. Karalis P., Dotsika E., Poutouki A-E., Diamantopoulos G., Gkelou L., **Kyropoulou D**., Bellas S., Gamaletsos N. P., (2025), Isotopic Analysis ($\delta^{13}C$, $\delta^{15}N$, and $\delta^{34}S$) of Modern Terrestrial, Marine, and Freshwater Ecosystems in Greece: Filling the Knowledge Gap for Better Understanding of Sulfur Isotope Imprints—Providing Insights for the Paleo Diet, Paleomobility, and Paleoecology Reconstructions, Appl. Sci.,15 (8), 4351. DOI:10.3390/app15084351

3. Dotsika E., Poutouki A-E., **Kyropoulou D.**, Karalis P., $\delta^{13}C$, $\delta^{15}N$, and $\delta^{34}S$ for elucidating the terrestrial, marine, and freshwater ecosystems in Greece. Preprint, DOI: 10.21203/rs.3.rs-4471394/v1, (Submitted, under peer review)
4. Karalis P., Dotsika E., Mazarakis Ainian A., Kolofotia E., Raptis I., Poutouki A.E., Drosou A., Raco B., Poutoukis P.L, **Kyropoulou D.**, & Tzovaras D. (2023). Isotopic geochemistry applied on marble samples of Kythnos Island in Greece, The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), 24, 171-176.
5. Karalis, P., Dotsika, E., **Kyropoulou, D**., Mazarakis Ainian, A., Kolofotia, E., Raptis, I., Drosou, A., Tzovaras, D., Poutouki, A.E. Diamantopoulos, G., & Poutoukis, P.L. (2023). Provenance study of gypsum black crusts. The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), 24, 119-125.
6. **Kyropoulou D**., Karalis P., Dotsika E., Diamantopoulos D., (2024), A holistic isotopic and mineralogical investigation of Ancient Thasos Theatre: Technology and Provenance of Thasos Marbles. Key Engineering Materials 986(7):3-6. https://doi.org/10.4028/p-O7PNFj
7. Karalis, P.Tassi M., Gouroura S., Diamantopoulos G., **Kyropoulou D**., Heliades E., Palaigeorgiou E., Dotsika E. (2022). Stable Isotope for Tracing the Salt Involved in the Degradation of Stone Monuments. In: Vayas, I., Mazzolani, F.M. (eds) Protection of Historical Constructions. Lecture Notes in Civil Engineering, vol 209. Springer, Cham. https://doi.org/10.1007/978-3-030-90788-4_10
8. **Kyropoulou, D**., Heliades, E., Karalis, P., Diamantopoulos, G., Gougoura, S., Dotsika, E. (2021). Technological Evolution of Historic Mortars: From Lime-Based Mortars to Roman Opus Caementicium. In: Vayas, I., Mazzolani, F.M. (eds) . Lecture Notes in Civil Engineering, vol 209. p.p 90, Springer, Cham. https://doi.org/10.1007/978-3-030-90788-4_8
9. **Kyropoulou, D**., Heliades, E., Karalis, P., Diamantopoulos, G., Gougoura, S., Dotsika, E. (2021), $\delta^{13}C$ and $\delta^{18}O$ Stable Isotope Analysis Applied to Indicate Sources of Water-Induced Degradation of Historic Monuments, In: Vayas, I., Mazzolani, F.M. (eds). Lecture Notes in Civil Engineering, vol 209. p.p 784, Springer, Cham. https://doi.org/10.1007/978-3-030-90788-4_8
10. Dotsika E., **Kyropoulou D**., Christaras V., Diamantopoulos G., (2018), ^{13}C and ^{18}O Stable Isotope Analysis Applied to Detect Technological Variations and Weathering Processes of Ancient Lime and Hydraulic Mortars, Geosciences 8, 339
11. Dotsika E., Iliadis E., **Kyropoulou D.**, Karalis P., (2017), Isotopic Geochemistry Applied on Mortars of the Katholikon of the Monastery of Timios Prodromos in the Prefecture of Serres, Greece, World Multidisciplinary Earth Sciences Symposium (WMESS 2017) IOP Publishing IOP Conf. Series: Earth and Environmental Science 95
12. **Dafni N. Kyropoulou**, (2013) Scanning electron microscopy with energy dispersive X-ray spectroscopy: an analytical technique to examine the distribution of dust in books. *Journal of the Institute of Conservation*, *36*(2), 173-185. https://doi.org/10.1080/19455224.2013.822402
13. **Kyropoulou D**., Dotsika E., (2013), Stable isotope analysis (^{13}C and ^{18}O), as a tool to investigate particulate matter in historic libraries, e-Preservation Science, 10, 109-113

C.2 Conference proceedings (scopus indexed)

1. E. Dotsika**, D. Kyropoulou**, P. Karalis, A. E. Poutouki, (2024), Isotopic tracers ($\delta^{13}C$, $\delta^{15}N$, $\delta^{18}O$) to define the authenticity of raw materials in bread products, 4nd Mediterranean Geosciences Union (MedGU), November 2024, Barcelona
2. **D. Kyropoulou**, P. Karalis, E. Dotsika, F. Rizou, I. Raptis, A. Drosou, D. Tzovaras, A. Mazarakis Ainian, E. Kolofotia, (2024). $\delta^{18}Oap$ and $\delta^{18}OH_2O$ as a tracer for mobility, migration and climatic conditions of ancient population, 4nd Mediterranean Geosciences Union (MedGU), November 2024, Barcelona

3. Platon N. Gamaletsos, Anastasia Electra Poutouki, **Dafni Kyropoulou**, Petros Karalis, Maria Chalabalaki, Charalambos Proestos, Leodios Leodiadis, Elissavet Dotsika, (2025). Stable isotope analysis in wine and vinegar as a tool to determine food adulteration, International Conference on Environment and Natural Science (ICENS - 2025), Chiang Mai, Thailand, 21st - 22nd January, 2025
4. Anastasia Electra Poutouki, Platon N. Gamaletsos, Petros Karalis, **Dafni Kyropoulou**, Maria Chalabalaki, Charalambos Proestos, Leodios Leodiadis, Elissavet Dotsika, International Conference on Environment and Natural Science (ICENS - 2025) Chiang Mai, Thailand, 21st - 22nd January, 2025
5. **Kyropoulou D**., Dotsika E., Andrikou D., (2013), The transition from Hellenistic to Roman and Byzantine mortars in Greece, Proceedings of 3rd historic mortars conference HMC03, Scotland, UK, booklet, **ISBN:** 978-1-903978-44-3.
6. L. Avlonitou, G. Totou, **D. Kyropoulou**, P. Xiradaki, M. Athanasiadou, S. Korosis, M. Pavlou, (2023), A novel, collaborative methodology for the Digital Documentation of Ancient Materials, TMM – CH 23, 20-22 March 2023 Eugenides Foundation Athens, Greece

C.3. Presentations in international conferences (ppt presentations)

1. Platon N. Gamaletsos, Anastasia Electra Poutouki, **Dafni Kyropoulou**, Petros Karalis, Maria Chalabalaki, Charalambos Proestos, Leodios Leodiadis, Elissavet Dotsika, Stable isotope analysis in wine and vinegar as a tool to determine food adulteration, International Conference on Environment and Natural Science (ICENS - 2025), Chiang Mai, Thailand, 21st - 22nd January, 2025
2. Anastasia Electra Poutouki, Platon N. Gamaletsos, Petros Karalis, **Dafni Kyropoulou**, Maria Chalabalaki, Charalambos Proestos, Leodios Leodiadis, Elissavet Dotsika, ^{13}C and ^{18}O as authenticity tracers to detect olive oil fraud, International Conference on Environment and Natural Science (ICENS - 2025) Chiang Mai , Thailand, 21st - 22nd January, 2025
3. E. Dotsika, **D. Kyropoulou**, P. Karalis, A. E. Poutouki, (2024), Isotopic tracers ($\delta^{13}C$, $\delta^{15}N$, $\delta^{18}O$) to define the authenticity of raw materials in bread products, 4nd Mediterranean Geosciences Union (MedGU), November 2024, Barcelona
4. **D. Kyropoulou**, P. Karalis, E. Dotsika, F. Rizou, I. Raptis, A. Drosou, D. Tzovaras, A. Mazarakis Ainian, E. Kolofotia, (2024). $\delta^{18}Oap$ and $\delta^{18}OH_2O$ as a tracer for mobility, migration and climatic conditions of ancient population, 4nd Mediterranean Geosciences Union (MedGU), November 2024, Barcelona
5. V. Bletsos, F. Rizou, I. Raptis, A. I. Katsampekis, E. Kolofotia, A.M. Ainian, **D. Kyropoulou**, E. Dotsika, A. Drosou, D. Tzovaras "Towards Natural Language Agents for Archaeological Conservation Assistance.", IEEE International Symposium on Information Theory (IEEE ISIT 2024), 07-12 July 2024, Athens, Greece.
6. **Kyropoulou D**., Karalis P., Dotsika E., Diamantopoulos D., (2024), A holistic isotopic and mineralogical investigation of Ancient Thasos Theatre: Technology and Provenance of Thasos Marbles. ISAMA 2024, South Korea.
7. **Kyropoulou D**., Karalis P., Dotsika E., Rizou F., Drosou A., Tzovaras D., Mazarakis Ainian A., Kolofotia E., (2024), 3D geospatial platform and virtual tour application to visualize stable isotope analysis data, 8th Symposium Arch-Rnt, Archaeological Research and New Technologies, Kalamata 3-5 October 2024.
8. Karalis P., Dotsika E., Mazarakis Ainian A., Kolofotia E., Raptis I., Poutouki A.E., Drosou A., Raco B., Poutoukis P.L, **Kyropoulou D**., & Tzovaras D. (2023). Isotopic geochemistry applied on marble samples of Kythnos Island in Greece, ICONTECH 2023.

9. Karalis, P., Dotsika, E., **Kyropoulou, D**., Mazarakis Ainian, A., Kolofotia, E., Raptis, I., Drosou, A., Tzovaras, D., Poutouki, A.E. Diamantopoulos, G., & Poutoukis, P.L. (2023). Provenance study of gypsum black crusts. ICONTECH 2023
10. L. Avlonitou, G. Totou, **D. Kyropoulou**, P. Xiradaki, M. Athanasiadou, S. Korosis, M. Pavlou, (2023), A novel, collaborative methodology for the Digital Documentation of Ancient Materials, TMM – CH 23, 20-22 March 2023 Eugenides Foundation, Athens, Greece
11. **Kyropoulou, D**., Heliades, E., Karalis, P., Diamantopoulos, G., Gougoura, S., Dotsika, E. (2021). Technological Evolution of Historic Mortars: From Lime-Based Mortars to Roman Opus Caementicium. In: Vayas, I., Mazzolani, F.M. (eds) Protection of Historical Constructions. PROHITECH 2021.
12. **Kyropoulou, D**., Heliades, E., Karalis, P., Diamantopoulos, G., Gougoura, S., Dotsika, E. (2021), $\delta^{13}C$ and $\delta^{18}O$ Stable Isotope Analysis Applied to Indicate Sources of Water-Induced Degradation of Historic Monuments, In: Vayas, I., Mazzolani, F.M. (eds) Protection of Historical Constructions. PROHITECH 2021.
13. **Kyropoulou D**., Dotsika E., Andrikou D., (2013), The transition from Hellenistic to Roman and Byzantine mortars in Greece, 3rd historic mortars conference HMC03, Scotland, UK
14. E. Dotsika, **D. Kyropoulou**, E. Iliadis, B. Raco, S. Dadaki, S. Doukata-Demertzi and I. Iliadis (2012), Carbon and oxygen isotopes for environmental degradation of historic mortars, Environmental and analytical chemistry conference, Antwerp, 2012
15. Dotsika E., **Kyropoulou D**., Iliadis E., Dadaki S., Doukata-Demertzi S., Iliadis I., (2012) Carbon and oxygen isotopes: a tool to diagnose degradation of historic mortars, Indoor air quality for museum and cultural institution conference, (IAQ), 2012, London
16. **Kyropoulou Dafni**, (2008), Dust at Trinity College Library, Conservation in Wales: ethics and Practice 3d December 2008, Cynon Valley Museum and Gallery, Aberdare

C.4. Presentations in National Conferences (ppt presentation and full-text in Greek)

1. **Kyropoulou, D**. (2021). *Isotopic Geochemistry: A tool for documentation and deterioration mapping of historic monuments*.
   Conservators in a Digital Environment, Hellenic Association of Graduate Conservators of Antiquities (SSAE-TEE).
2. **Kyropoulou, D**., Dotsika, E., & Andrikou, D. (2013). *The technology of Hellenistic mortars from Pydna, Greece*.
   In Proceedings of the 6th Symposium of the Hellenic Society for Archaeometry.
3. Chantzi, P., **Kyropoulou, D**., Dotsika, E., Athanasiadou, K., & Iliadis, E. (2015). *Isotopic techniques applied to historic mortars*.
   In Proceedings of the 4th Panhellenic Conference on Monument Restoration,
   Society for Research and Promotion of Scientific Restoration of Monuments (ETEPAM),
   26–28 November.
4. **Kyropoulou, D.** (2011). *Research study on particulate matter deposition in historic libraries*.
   Panhellenic Association of Conservators of Antiquities (PESA).

C.5. Speeches

Ambatzioglou, E., Avlonitou, L., **Kyropoulou, D.,** Xiradaki, P., Totou, G., Anagnos, Th., Dellis, S., Papadopoulos, O., Petrakis, K., Angelakis, D., Charami, L., Giakoumaki, A., Melesanaki, K., Pouli, P. (2022).
CALLOS Project: Digital documentation and public dissemination of conservation data for antiquities and works of art.
In *Smart-Eye: The use of new technologies for the dissemination of archaeological information*.
Centre for the Dissemination of Research Results (KEDEA), Aristotle University of Thessaloniki.

C.6. Posters

1.Kyropoulou D., Andrikou D., Christaras V., Melfos V., Dotsika E., (2016), ^{13}C and ^{18}O apllied to detect the technology and degradation of historic mortars, 41st Internaltional symposium on archaeometry (ISA), 2016, Kalamata, Greece
2.Kyropoulou D., Dotsika E., Chantzi P., Heliadis E, Karalis P. (2014), Conserving the past, building for the future: Chemical and isotope analysis of historic mortar, The Mediterranean city
3.Kyropoulou D., Dotsika E., (2013), SEM/EDXA an analytical tool to examine technology and deterioration of historic mortars, Proceedings of 3rd historic mortars conference HMC03, Scotland, UK , Historic mortars conference
4.Kyropoulou Dafni (2012), Stable isotope (^{13} C and ^{18}O) analysis for investigation of dust cementation in historic libraries, Iaq 2012

TEACHING EXPERIENCE

Training courses for undergraduate and graduate students

1. **Kyropoulou Dafni** (2011). Isotopic geochemistry, a modern tool to investigate the museum environment, Demokritos Summer School
2. **Kyropoulou Dafni** (2012). Isotopic geochemistry, a modern tool to study museum objects and their environment, Demokritos Summer School
3. **Kyropoulou D**. Dotsika E., (2013), The emerging role of stable isotopes in reading the past, Ancient Mediterranean Landscape Reconstruction NCSR Demokritos,NARNIA project , 29-31 October 2013

4. Graduate students' supervision (supervision assistance to Dr. Dotsika)

MSc Thesis (2016–2018)
Title: Isotopic traceability ($\delta^{13}C$ and $\delta^{18}O$) of Greek olive oils
Student: Petros Karalis
Institution: National and Kapodistrian University of Athens, School of Pharmacy,
Division of Pharmacy and Chemistry of Natural Products –
NCSR “Demokritos”, Stable Isotope Unit

MSc Thesis (2011–2012)
Title: Study of the hydrological cycle of Lake Koroneia using isotopic geochemistry methods
Student: Ch. Papacharalambous
Institution: Aristotle University of Thessaloniki,
Department of Geology

PhD Thesis (2011–2012)
Title: Assessment of corrosion degree in building materials and archaeological findings of Eastern Macedonia and Thrace using isotopic geochemistry and ultrasonic velocity methods
Student: Efstathios Iliadis
Institution: Part of the doctoral research conducted at NCSR “Demokritos”,
Institute of Nanoscience and Nanotechnology, Stable Isotope Unit,
in collaboration with Aristotle University of Thessaloniki,
Department of Geology

5. Teaching conservation courses in Conservation Educational Institute

- **10/2011 – 06/2012**
  Vocational Training Institute of Ilioupoli
  Programme: Conservation Technician
  Role: Teaching in conservation science and applied laboratory practices
- **02/2009 – 06/2009**
  Cultural Vocational Training Institute of Thessaloniki
  Programme: Art Conservation Technician
  Role: Teaching art conservation techniques and materials analysis