

CV

Georgios P. Mastrotheodoros

Date of birth: June 30, 1983
Citizenship: Greek
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Researchgate: <https://www.researchgate.net/profile/Georgios-Mastrotheodoros>
Marital status: Married, three children.

1. Education

Bachelor's degree

Title: Conservation of Antiquities and Works of Art

Technological Educational Institute (TEI) of Athens, Department of Conservation of Antiquities and Works of Art.

Dissertation title: 'Light stabilizers and coating materials' (Supervisor: Prof. A. Pournou).

Grade/Degree: 8.35/10

(Period: March 2002 – October 2006)

Master of Science (MSc)

Title: Chemistry and Technology of Materials

University of Ioannina, Department of Materials Science and Engineering.

Dissertation title: '*Study of decorative pigments on archaic pottery from Thebes*' (in collaboration with the Laboratory of Archaeometry, former Institute of Materials' Science, NCSR 'Demokritos', Athens).

Supervisors: Prof. K. G. Beltsios (University of Ioannina), Prof. M. Karakasidis (University of Ioannina), Dr. N. Zacharias (NCSR 'Demokritos').

(Period: November 2006 – July 2009)

PhD in Materials Science.

Thesis title: 'Pigments and other materials of post-byzantine painting'.

Department of Materials Science and Engineering, University of Ioannina and Laboratory of Archaeometry, NCSR 'Demokritos', Athens.

Supervisors: Prof. K. G. Beltsios (University of Ioannina), Prof. M. Karakasidis (University of Ioannina), Dr. Y. Bassiakos (NCSR 'Demokritos').

Contacted in the framework of an "Onassis Foundation" scholarship.

(Period: June 2010 – April 2016)

2. Postdoctoral research experience

-March 2022 to May 2023:

Postdoctoral researcher in the project entitled "Center for Research, Qualitative Analysis of Cultural Heritage Materials and Science Communication".

Responsibilities: identification of painting materials & techniques and assessment of the state of preservation of panel paintings through scanning X-ray fluorescence spectroscopy (MA-XRF) data collection and interpretation.

Scientific Supervisor: Associate Professor Dimitrios F. Anagnostopoulos (Materials Science & Engineering Dept., University of Ioannina, Greece).

-February 2020 to February 2022:

Postdoctoral Researcher at the School of Chemical Engineering of the National Technical University of Athens, Athens.

Topic of research: "Painting materials and techniques in Greece during the post-Byzantine period (mid 15th to mid-19th c.): the "Hermeneia of the art of painting" by the hieromonk Dionysios of Fourni and related technical manuals".

Responsibilities: spotting and retrieval, study and interpretation of published and unpublished original sources on painting, reconstruction of selected recipes.

Supervisor: Professor Konstantinos G. Beltsios (School of Chemical Engineering of the National Technical University of Athens, Athens).

Funding from the Greek State Scholarship Foundation (IKY).

-October 2018 to March 2020:

Post-doctoral Researcher in the framework of the program "Arcäometrie von Dreifußkesseln: neue Daten zu politischen und wirtschaftlichen Verknüpfungen Griechenlands ca. 1200 – 700 BC Chr. [Archaeometry of tripod vessels: new data on political and economic alliances in Greece ca. 1200 – 700 BC]".

Project managers: Dr. M. Bode & Dr. M. Kiderlen.

Responsibilities: Stereoscopic examination of ~70 solid metal micro-samples from Geometric Period tripod cauldrons, and preparation of the corresponding polished cross sections, followed by the metallographic examination and scanning electron microscopy (SEM-EDX) study of the latter. Commissioned by the Deutsches Bergbau-Museum (DBM), DMT-LB mbH (Bochum). The analyzes were carried out at the facilities of the Institute of Nanoscience and Nanotechnology of the NCSR 'Demokritos' under the supervision of Dr. E. Filippaki and Dr. I. Bassiakos.

-February 2017 to August 2018:

Postdoctoral Researcher at the Institute of Nanoscience and Nanotechnology, NCSR 'Demokritos', Athens.

Topic of post-doctoral research: "The 'school of northwestern Greece' in religious painting of the 16th century: approaching the idiom through an investigation of the materials and construction techniques of the frescoes of six churches of Epirus".

Responsibilities: analytical investigation of wall painting microsamples (through OM, SEM-EDX, FTIR, XRD, μ -Raman).

Funding from the Greek State Scholarship Foundation (IKY).

Supervisor: Researcher Dr. I Bassiakos (Institute of Nanoscience and Nanotechnology of the NCSR 'Demokritos').

3. Teaching experience

3.1 Undergraduate

May 2023 – today:

Assistant Professor, West Attica University, School of Applied Arts & Culture, Department of Conservation of Antiquities & Works of Art.

-Courses: a) "Conservation of icons (panel paintings)", 7th semester. The course consists of lectures/theory (2 hours/week) & a laboratory/practical part (6 hours/week), b) "Conservation of canvas paintings", 7th semester. The course consists of lectures/theory (2 hours/week) & a laboratory/practical part (6 hours/week), c) "Historical Pigments and Dyes", 6th semester, lectures/theory (2 hours/week),

October 2018 – April 2023:

Contractual/adjunct teaching staff, West Attica University, School of Applied Arts & Culture, Department of Conservation of Antiquities & Works of Art.

-Courses: a) "Conservation of icons (panel paintings)", 7th semester. The course consists of lectures/theory (2 hours/week) & a laboratory/practical part (6 hours/week), b) "Conservation of canvas paintings", 7th semester. The course consists of lectures/theory (2 hours/week) & a laboratory/practical part (6 hours/week), c) "Historical Pigments and Dyes", 6th semester, lectures/theory (2 hours/week), d) "Principles and theory of conservation", 2nd semester, lectures/theory (3 hours/week), e) "Conservation of wall-paintings", 6th semester, laboratory (6 hours/week, responsible: Professor M. Chatzidakis), f) "Conservation of painted works of art", 3rd semester, laboratory (2 hours/week, responsible: Professor M. Chatzidakis).

October 2011 – September 2012

Contractual/adjunct teaching staff, Technological Education Institute of the Ionian Islands, department of Cultural Heritage Protection & Conservation (Zakynthos Island, Greece).

-Course: a) "Conservation of icons – I", lectures/theory (2 hours/week) & laboratory (3 hours/week), b) "Conservation of icons – II". Laboratory (4 hours/week), c) "Mural paintings' conservation – I", lectures/theory (2 hours/week) & laboratory (3 hours/week).

3.2 Postgraduate - Master

-2017 – 2021:

Master of Science “Conservation of Cultural Heritage”, Department of Conservation of Antiquities and Works of Art, School of Applied Arts & Culture, University of West Attica.

-2018 – 2019:

Master of Science «Cultural Heritage Materials & Technologies», Department of History, Archeology and Cultural Heritage Management, University of Peloponnese, lecture in the frame of the course: “Archaeometry II - Non-destructive and innovative methodologies for cultural heritage”.

4. Supervisor & examiner of undergraduate dissertations

2019 – today

-University of West Attica, School of Applied Arts & Culture, Department of Conservation of Antiquities & Works of Art:

Supervisor of 12 undergraduate dissertations (6 of which have been successfully defended).

Examiner of numerous (>10) undergraduate dissertations.

5. Supervision of postgraduate dissertations

2019 – today

- Master of Science “Conservation of Cultural Heritage”, Department of Conservation of Antiquities and Works of Art, School of Applied Arts & Culture, University of West Attica:

Supervisor of 2 Master dissertations (successfully defended during the academic year 2021 – 2022).

Examiner of 3 postgraduate dissertations.

6. Publications

6.1 In peer-reviewed journals

s/n	Year of publication	Title, author list, journal.
22	2024	New Archaeometallurgical Fingerprints of Copper and Slag from Early Iron Age Smelting Sites in Faynan and Timna , M. Bode, M. Kiderlen, <u>G. Mastrotheodoros</u> , M. Jansen, E. Ben-Yosef, O. Yagel, M. Renzi, E. Filippaki, Y. Bassiakos, A. Hein, A. Hauptmann, <i>Metalla</i> 27.2 / 2023, 167–219, DOI: 10.46586/metalla.v27.2023.i2.167-219
21	2024	On the study of paintings' stratigraphy by fs-LIBS and MA-XRF techniques , E. Kechaoglou, K. A. Agrafioti, <u>G. P. Mastrotheodoros</u> , D. F. Anagnostopoulos, C. Kosmidis, <i>Journal of Analytical Atomic Spectrometry</i> , DOI: 10.1039/D3JA00199G
20	2023	MA-XRF investigation of a 17th century icon by the renowned painter Theodoros Poulakis , Georgios P. Mastrotheodoros, Anastasios Asvestas, Theofanis Gerodimos, Anastasia Tzima, Varvara Papadopoulou, Dimitrios F. Anagnostopoulos (2024) <i>Journal of Archaeological Science: Reports</i> , Volume 53, February 2024, 104313 DOI: 10.1016/j.jasrep.2023.104313
19	2023	The Balpis Expansion of the Technical Part of the Hermeneia Painting Manual by Dionysius of Fourná , Georgios P. Mastrotheodoros & Konstantinos G. Beltsios (2023), <i>Studies in Conservation</i> DOI: 10.1080/00393630.2023.2256626
18	2023	Revealing the Materials, Painting Techniques, and State of Preservation of a Heavily Altered Early 19th Century Greek Icon through MA-XRF , Mastrotheodoros, G.P.; Asvestas, A.; Gerodimos, T.; Anagnostopoulos, D.F., <i>Heritage</i> , 2023, 6, 1903-1920. https://doi.org/10.3390/heritage6020102
17	2022	Scanning X-ray Fluorescence Data Analysis for the Identification of Byzantine Icons' Materials, Techniques, and State of Preservation: A Case Study , T. Gerodimos, A. Asvestas, <u>G. P. Mastrotheodoros</u> , G. Chantas, I. Liougos, A. Likas, D. F. Anagnostopoulos, <i>Journal of Imaging</i> , 2022, 8(5).
16	2022	Recipes for pigment manufacturing in Greek post-byzantine painting manuals , <u>G. P. Mastrotheodoros</u> , K. G. Beltsios, <i>Scientific Culture</i> , 2022, 8(1), 147-159
15	2022	Pigments—Iron-based red, yellow, and brown ochres , <u>G. P. Mastrotheodoros</u> , K. G. Beltsios, <i>Archaeological and Anthropological Sciences</i> , 2022, 14(35), 1-25
14	2021	Original varnish recipes in post-byzantine painting manuals , <u>G. P. Mastrotheodoros</u> , K. G. Beltsios, <i>Heritage</i> , 2021, 4(4), 3572-3582
13	2021	On the red and yellow pigments of post-byzantine Greek icons , <u>G. P. Mastrotheodoros</u> , K. G. Beltsios, Y. Bassiakos, <i>Archaeometry</i> , 2021, 63(4), 753-778
12	2020	By the hand of Angelos? Analytical investigation of a remarkable 15th century Cretan icon , <u>G. P. Mastrotheodoros</u> , M. Theodosios, E. Filippaki, K. G. Beltsios, <i>Heritage</i> , 2020, 4(3), 1360-1372
11	2020	On the blue and green pigments of post-byzantine Greek icons , <u>G. P. Mastrotheodoros</u> , K. G. Beltsios, Y. Bassiakos, <i>Archaeometry</i> , 2020, 62(4), 774-795

10	2019	Probing the birthplace of the "Epirus/NW Greece School" of painting: analytical investigation of the Filanthropinon monastery murals. Part II: non-pigment materials and painting technique , <i>G. P. Mastrotheodoros</i> , D. F. Anagnostopoulos, E. Filippaki, K. G. Beltsios, Y. Bassiakos,, <i>Archaeological and Anthropological Sciences</i> , 2019, 11 (10), 5781-5798
9	2019	Probing the birthplace of the "Epirus School" of painting: analytical investigation of the Filanthropinon monastery murals. Part I: pigments , <i>G. P. Mastrotheodoros</i> , E. Filippaki, Y. Bassiakos, K. G. Beltsios, V. Papadopoulou, <i>Archaeological and Anthropological Sciences</i> , 2019, 11 (6), 2821-2836
8	2019	Single step fabrication of polymer/silicate porous composite membranes via water-glass induced phase inversion , E. Kollia, <i>G. Mastrotheodoros</i> , V. Kosma, K.G. Beltsios, <i>Polymer-Plastics Technology and Engineering</i> , 2019, 58 (9), 957-966
7	2019	Sound practice and practical conservation recipes as described in Greek post-byzantine painters' manuals , <i>G. P. Mastrotheodoros</i> , K. G. Beltsios, <i>Studies in Conservation</i> , 2019, 64 (1), 42-53
6	2018	Two unique Byzantine immured lead-glazed relief ceramic icons and related tiles from the church of St Basil in Arta, Greece: investigation and interpretation of materials and techniques , <i>G. P. Mastrotheodoros</i> , K. G. Beltsios, Y. Bassiakos, V. Papadopoulou, <i>Archaeological and Anthropological Sciences</i> , 2018, 10 (8), 2059-2074
5	2018	Kynos through time: decorated pottery sherds from eleven strata of a Homeric Greek site , A. Tsiachri, <i>G. P. Mastrotheodoros</i> , H. Zoubos, D. F. Anagnostopoulos, K. G. Beltsios, <i>Applied Spectroscopy</i> , 2018, 72 (7), 1088-1103
4	2018	On the metal-leaf decorations of post-Byzantine Greek icons , <i>G. P. Mastrotheodoros</i> , K. G. Beltsios, Y. Bassiakos, V. Papadopoulou, <i>Archaeometry</i> , 2018, 60 (2), 269-289
3	2017	On the grounds of post-Byzantine Greek icons , <i>G. P. Mastrotheodoros</i> , K. G. Beltsios, Y. Bassiakos, V. Papadopoulou, <i>Archaeometry</i> , 2016, 58 (5), 830-847
2	2013	Decorated archaic pottery from the Heracles sanctuary at Thebes: a materials, technology and provenance study , <i>G. Mastrotheodoros</i> , K. G. Beltsios, N. Zacharias, V. Aravantinos, K. Kalliga, <i>Archaeometry</i> , 2013, 55 (5), 806-824
1	2010	Assessment of the production of antiquity pigments through experimental treatment of ochres and other iron based precursors , <i>G. Mastrotheodoros</i> , K. G. Beltsios, N. Zacharias, <i>Mediterranean Archaeology & Archaeometry</i> , 2010, 10 (1), 37-59

6.2 Chapters in books

s/n	Year of publication	Title, author list, publication.
9	2022	Pigments (in Greek), <i>G. P. Mastrotheodoros</i> , In: "Archaeometry. Absolute datings and Analyses" (in Greek). Edited by N. Zacharias, ΠΑΠΑΖΗΣΗ editions, ISBN: 978-960-02-3936-2
8	2020	Non-destructive study on nine Mycenaean metallic items (in Greek), <i>G. P. Mastrotheodoros</i> , I. Bassiakos, Appendix in Ch. Marabea "Late Helladic grave offerings of a Boeotian breeder" (in Greek), in Κ. Κοπανιάς & Γ. Παπαδάτος (επιμελητές), <i>Κυδάλμιος. Τιμητικός τόμος για τον Καθηγητή Γεώργιο Στυλ. Κορρέ</i> , Volume 2, series Aura 4, 190-192, Athens
7	2020	Das Kupfer der griechischen spätgeometrischen Dreifußkessel (ca. 750–700 v. Chr.): eine Diskussion der chemischen und bleisotopischen Analysen , M. Bode, M. Kiderlen, <i>G. P. Mastrotheodoros</i> , E. Filippaki, Y. Bassiakos, στο Η. G. Yalçin & Stegemeier O. (Editors) <i>Metallurgica Anatolica</i> , Bochum
6	2017	Analyses of metal finds (in Greek), <i>G. Mastrotheodoros</i> , E. Filippaki, I. Bassiakos, in: <i>Μελέτη προϊστορικών Τύμβων Βρανά Μαραθώνος</i> , Proceedings of The Archaeological Society at Athens 2017 (Πρακτικά της εν Αθήναις Αρχαιολογικής Εταιρείας του έτους 2017), Athens, 47-48
5	2014	Analytical and technological studies of the copper finds of the Korfari ton Amigdalion Acropolis (Panormos), Naxos (in Greek), <i>G. Mastrotheodoros</i> , I. Bassiakos, in <i>Πρωτοκυκλαδική ακρόπολη στο Κορφάρι των Αμυγδαλιών (Πάνορμος) Νάξου</i> , Α. Αγγελουπούλου, Greek Ministry of Culture and Sports, Hellenic Organization of Cultural Resources Development (Ταμείο Αρχαιολογικών Πόρων και Απαλλοτριώσεων), Publication Nr. 104 , Athens
4	2013	Technological and analytical examination of the clay plaques from Thebes , N. Zacharias, G. Pappas, <i>G. Mastrotheodoros</i> , appendix in M. Pisani, <i>Avolti dalla Morte</i> , Monografie della scuola archeologica di Atene e delle missioni Italiane in Oriente Vol. XXI , Athens
3	2009	Study of the decoration of frames through SEM-EDS (in Greek), <i>G. Mastrotheodoros</i> , A. Sampatakos, in: <i>The Athens University Portrait Collection</i> (in Greek), National Kapodistrian University of Athens, Athens, 117-119
2	2009	The frames of the portraits and their conservation (in Greek), A. Sampatakos, <i>G. Mastrotheodoros</i> , in: <i>The Athens University Portrait Collection</i> (in Greek), National Kapodistrian University of Athens, Athens, 113-116
1	2009	Micromorphology and elemental analysis of microsamples from a portrait (in Greek), <i>G. Mastrotheodoros</i> , in: <i>The Athens University Portrait Collection</i> (in Greek), National Kapodistrian University of Athens, Athens, 110-112

6.3 Papers published in peer-reviewed conference proceedings

6.3.18 **Cleaning Old Icons: The Effect of Varnishes on the XRF Analysis of Portable Panel Paintings**, *Georgios P. Mastrotheodoros*, Dimitrios F. Anagnostopoulos, Konstantinos G. Beltsios, In: A. Osman, A. Moropoulou and K. Lampropoulos (Editors), *Advanced Nondestructive and Structural Techniques for Diagnosis, Redesign and Health Monitoring for the Preservation of Cultural Heritage. Selected*

Works from the TMM-CH 2023, Springer Proceedings in Materials (SPM, volume 33), pp.127-135.

6.3.17 Nondestructive Assessment of Hidden Information in a Post-byzantine Icon, G. T. Varfi, S. Farmaki, T. Gerodimos, D. A. Exarchos, *G. Mastrotheodoros*, D. F. Anagnostopoulos, T. E. Matikas, In: A. Osman, A. Moropoulou and K. Lampropoulos (Editors), *Advanced Nondestructive and Structural Techniques for Diagnosis, Redesign and Health Monitoring for the Preservation of Cultural Heritage. Selected Works from the TMM-CH 2023*, Springer Proceedings in Materials (SPM, volume 33), pp. 105-115.

6.3.16 Artificial Intelligence Analysis of Macroscopic X-Ray Fluorescence Data: A Case Study of Nineteenth Century Icon, T. Gerodimos, D. Chatzipanteliadis, G. Chantas, A. Asvestas, *G. Mastrotheodoros*, A. Likas, D. F. Anagnostopoulos. In: A. Osman, A. Moropoulou and K. Lampropoulos (Editors), *Advanced Nondestructive and Structural Techniques for Diagnosis, Redesign and Health Monitoring for the Preservation of Cultural Heritage. Selected Works from the TMM-CH 2023*, Springer Proceedings in Materials (SPM, volume 33), pp. 29-39.

6.3.15 The usefulness of X-ray fluorescence analysis on photocopies identification – a case study, L. Tsoka, *G. P. Mastrotheodoros*, K. Choulis, In: A. Osman, A. Moropoulou, K. Lampropoulos (Eds), *Advanced Non Destructive and Structural Techniques for Diagnosis, Redesign and Health Monitoring for the Preservation of Cultural Heritage*, Springer Proceedings in Materials, 2022, Vol. 16, 55-70, doi: 10.1007/978-3-031-03795-5_11

6.3.14 Nondestructive assessment of post-Byzantine icon, G. Varfi, A. Asvestas, D. Exarchos, S. Farmaki, *G. P. Mastrotheodoros*, D. Anagnostopoulos, T. Matikas. In: A. Osman, A. Moropoulou, K. Lampropoulos (Eds), *Advanced Non Destructive and Structural Techniques for Diagnosis, Redesign and Health Monitoring for the Preservation of Cultural Heritage*, Springer Proceedings in Materials, 2022, Vol. 16, 17-27, doi: 10.1007/978-3-031-03795-5_2

6.3.13 Materials and techniques of two late 19th century Greek icons: An X-ray techniques-based investigation, *G. P. Mastrotheodoros*, S. Papagiannis, A. Asvestas, D. Dristiliaris, A. Tzima, E. Filippaki, K. G. Beltsios, D. F. Anagnostopoulos, In: Proceedings of the 7th Symposium of the Hellenic Society for Archaeometry (in press).

6.3.12 Non-destructive p-XRF investigation of prehistoric metal artifacts from Karystian sites (South Euboea, Greece), *G. P. Mastrotheodoros*, E. Filippaki, Y. Bassiakos, Ž. Tankosić, F. Mavridis, In: Proceedings of the 7th Symposium of the Hellenic Society for Archaeometry (in press).

6.3.11 Glittering on the wall: gildings on Greek post-byzantine wall paintings, *G. P. Mastrotheodoros*, D. F. Anagnostopoulos, K. G. Beltsios, E. Filippaki, Y. Bassiakos, In: A. Moropoulou, M. Korres, A. Georgopoulos, C. Spyrakos, C. Mouzakis (Editors),

Transdisciplinary Multispectral Modeling and Cooperation for the Preservation of Cultural Heritage, TMM_CH 2018, Communications in Computer and Information Science, 2019, Vol. 962, 397-404, doi: 10.1007/978-3-030-12960-6_27

6.3.10 Post-Byzantine monumental pictorial art: painting materials and techniques in the church of the Transfiguration of Our Savior in Klimatia (Epirus, NW Greece), G. P. Mastrotheodoros, E. Filippaki, Y. Bassiakos, K. G. Beltsios, In: M. Kouli και F. Zezza (Eds): *10th International Symposium on the Conservation of Monuments in the Mediterranean Basin*, Springer Book No 442668, 2018, 449-454, doi: 10.1007/978-3-319-78093-1_47

6.3.9 Copper production in early Bronze Age Thassos: new finds and experimental simulation in the context of contemporaneous Aegean metallurgical practices, N. Nerantzis, Y. Bassiakos, M. Georgakopoulou, E. Filippaki, G. Mastrotheodoros, In: I. M. Ruiz και A. Perea (Editors), *Archaeometallurgy in Europe IV*, Bibliotheca Praehistorica Hispana Vol. XXXIII, 2017, pp. 115-126.

6.3.8 Technical aspects of two Byzantine glazed relief pottery icons, G. Mastrotheodoros, K. Beltsios, Y. Bassiakos, V. Papadopoulou, In: E. Photos-Jones, Y. Bassiakos, E. Filippaki, A. Hein, I Karatasios, V. Kilikoglou, E. Kouloumpi (Editors), *Proceedings of the 6th Symposium of the Hellenic Society for Archaeometry*, British Archaeological Reports (S2780), 2016, pp. 29-32.

6.3.7 The grounds of portable icons: written sources and scientific examination of post-Byzantine icons from Epirus, G. P. Mastrotheodoros, K. Beltsios, V. Papadopoulou, In: E. Photos-Jones, Y. Bassiakos, E. Filippaki, A. Hein, I Karatasios, V. Kilikoglou, E. Kouloumpi (Editors), *Proceedings of the 6th Symposium of the Hellenic Society for Archaeometry*, , British Archaeological Reports (S2780), 2016, pp. 141-146.

6.3.6 ‘Preventive conservation’ and ‘practical’ conservation in painting manuals, G. P. Mastrotheodoros, K. G. Beltsios, Proceedings of the Conference “The conservation of cultural heritage: challenges and reassessments” (in Greek), Athens 25-29 May 2015 (submitted).

6.3.5 Glass, Mycenaean glass and a study of Late Bronze Age Messenian glass artefacts, G. Mastrotheodoros, K. G. Beltsios, N. Zacharias, X. Arapogianni, In the proceedings of the International Symposium “History, technology and conservation of ancient metal, glasses and enamels”, 16-19 November 2011, Athens, Greece (submitted).

6.3.4 Iron based and other ancient pigments for pottery decoration, G. Mastrotheodoros, K. G. Beltsios, N. Zacharias, In: A. S. Paipetis, T. E. Matikas, D. G. Aggelis & D. Van Hermelijck (Editors), *Emerging Technologies in Non-Destructive Testing V*, CRC, 2012, pp. 83-88.

6.3.3 Study of decorative pigments on archaic pottery from Thebes. Contribution to provenancing (in Greek), Γ. Μαστροθεόδωρος, Ν. Ζαχαριάς, Κ. Γ. Μπέλτσιος, Β. Αραβαντινός, Κ. Καλλιγά, Δ. Οικονόμου, In: Ν. Ζαχαριάς (Editor), *Πρακτικά 2ου Συμποσίου ARCH_RNT: Αρχαιολογική Έρευνα και Νέες Τεχνολογίες*, edition of the Archaeometry Laboratory, Τμήμα Ιστορίας, Αρχαιολογίας και Διαχείρισης Πολιτισμικών Αγαθών, Πανεπιστημιακή Σχολή Καλαμάτας, Καλαμάτα 2012, pp. 171-176.

6.3.2 Experimental study of the methodology of the production of ancient iron-based pigments (in Greek), Γ. Μαστροθεόδωρος, Κ. Μπέλτσιος, Ν. Ζαχαριάς, In: Ν. Ζαχαριάς, Μ. Γεωργακοπούλου, Κ. Πολυκρέτη, Γ. Φακορέλλης, Θ. Βάκουλης (Editors), *Πρακτικά 5ου Συμποσίου Ελληνικής Αρχαιομετρικής Εταιρείας (Αθήνα 2008)*, Παπαζήσης editions, Athens 2012, pp. 383-398.

6.3.1 Technological study of the pyrometallurgical products found in the excavation of a Heracles sanctuary, close to the Helectra Pylae, (Kadmeia), Thebes (in Greek), Ν. Ζαχαριάς, Β. Αραβαντινός, Α. Οικονόμου, Μ. Καπαρού, Κ. Μπέλτσιος, Γ. Μαστροθεόδωρος, Θ. Τσέλιος, Κ. Καλλιγά, Δ. Οικονόμου, In: Ν. Ζαχαριάς, Μ. Γεωργακοπούλου, Κ. Πολυκρέτη, Γ. Φακορέλλης, Θ. Βάκουλης (Editors), *Πρακτικά 5ου Συμποσίου Ελληνικής Αρχαιομετρικής Εταιρείας (Αθήνα 2008)*, επιμέλεια Ν. Ζαχαριάς, Παπαζήσης editions, Athens 2012, pp. 345-364.

6.4 Papers published in not peer-reviewed conference proceedings

Seven (7) contributions (not listed).

7. Conferences – Invited speaker

-More than sixty (60) oral and poster presentations in International and Greek Conferences/Symposia.

-Ten (10) invited lectures.

8. Reviewer in Scientific Journals

8.19 **Journal of Raman Spectroscopy** (Wiley, 1st invitation: February 2024).

8.18 **Heritage Science** (Springer, 1st invitation: January 2024).

8.17 **Advances in Archaeomaterials** (Elsevier, 1st invitation: January 2024).

- 8.16 **Advanced Research in Conservation Science** (University of Cairo, 1st invitation: April 2022).
- 8.15 **Heliyon** (Cell Press, 1st invitation: March 2022).
- 8.14 **Molecules** (MDPI, 1st invitation: February 2022).
- 8.13 **Design, Arts, Culture** (EKT, 1st invitation: September 2021).
- 8.12 **Arts** (MDPI, 1st invitation: June 2021).
- 8.11 **Mediterranean Archaeology and Archaeometry** (Aegean University & Henan University, 1st invitation: January 2021).
- 8.10 **Sensors** (MDPI, 1st invitation: January 2021)
- 8.9 **Journal of Cultural Heritage** (Elsevier, 1st invitation: August 2020).
- 8.8 **European Physical Journal Plus** (Springer, 1st invitation: August 2020).
- 8.7 **Journal of Imaging** (MDPI, 1st invitation: June 2020).
- 8.6 **Spectroscopy Letters** (Wiley, 1st invitation: April 2020).
- 8.5 **Applied Sciences** (MDPI, 1st invitation: April 2020).
- 8.4 **Minerals** (MDPI, 1st invitation: February 2020).
- 8.3 **Archaeological and Anthropological Sciences** (Springer, 1st invitation: September 2019).
- 8.2 **Journal of Archaeological Science: Reports** (Elsevier, 1st invitation: May 2019).
- 8.1 **Heritage** (MDPI, 1st invitation: February 2019).

9. Guest Editor

- 9.2. Guest editor of the Special "Latest Trends and Challenges in the Study of Pigments and Dyes and Their Degradation in Cultural Heritage Objects" (Journal: Heritage, MDPI) in collaboration with A. Rousaki & E. Kouloumpi.
- 9.1. Guest editor of the Special Issue "Chemistry in Cultural Heritage" (Journal: Heritage, MDPI) in collaboration with N. Laskaris, M. Kaparou & A. Oikonomou.

10.Scholarships

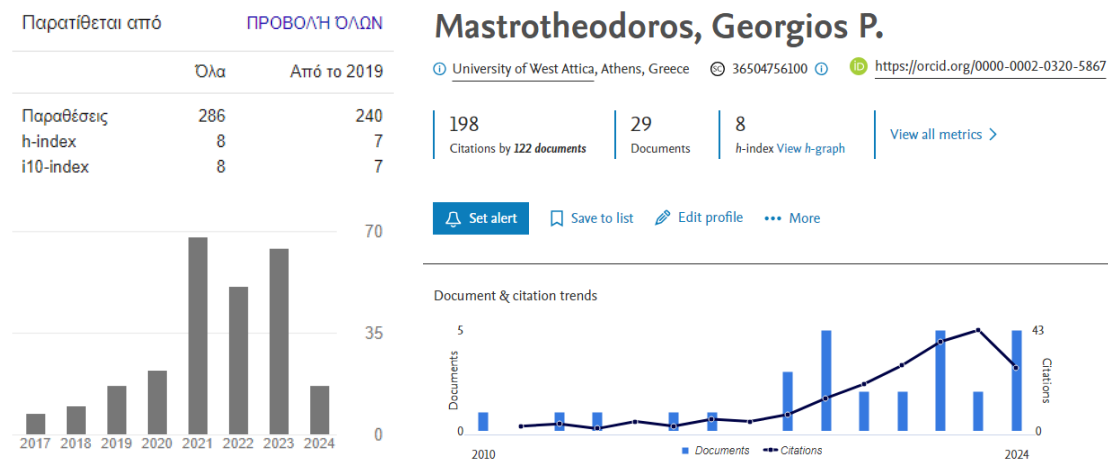
- 10.3 February 2020 – February 2022: Post-Doctoral research scholarship by the Greek State Scholarships Foundation (IKY).
- 10.2 February 2017 – October 2018: Post-Doctoral research scholarship by the Greek State Scholarships Foundation (IKY).
- 10.1 October 2011 – December 2014: scholarship from the “Onassis Foundation” for PhD studies.

11. Metrics

(as of February 2024)

Based on: Google Scholar, Scopus, Research Gate

- Number of published works: **33** (Google Scholar) / **29** (Scopus)
- Citations: **286** (Google Scholar) / **198** (Scopus) / **246** (Research Gate)
- h-index: **8** (Google Scholar, Scopus & Research Gate)



Left: citations/year and relevant indices (Google Scholar). Right: publications and citations/year (Scopus). Data: February 2024.