

Maria Stefanidou
Professor, Laboratory of Building Materials, Structural Division
School of Civil Engineering AUTH

CORRICULUM VITAE

“Technology of traditional building materials and application of new methodologies”

Thessaloniki, 2021

1. PERSONAL DATA

Name: Maria
Surname: Stefanidou
Place of birth: Thessaloniki
Family status: Married, mother of two girls
Communication data: tel. +302310995635 email: stefan@civil.auth.gr
Experience:

Researcher in the Laboratory of Building Material School of Civil Engineering, AUTH from 1993 up to 2001

Employee (IDAX) in the Laboratory of Building Material School of Civil Engineering, AUTH from 2001 up to 2005 (based on law N.2839/2000)

Lecturer in the Laboratory of Building Material School of Civil Engineering, AUTH from 2005 up to 2011(ΦΕΚ 201 17/8/2005)

Assistant Professor (not permanent position) in the Laboratory of Building Material School of Civil Engineering, AUTH from 2011 up to 2015 (ΦΕΚ διορισμού 317/ 19-5-2011 τ. Γ)

Assistant Professor (permanent position) in the Laboratory of Building Material School of Civil Engineering, AUTH from 2015-2016 (ΦΕΚ διορισμού 500/3-6-2015 τ.Γ')

Director of the Laboratory of Building Materials after the decision of the Department of Civil Engineering and Engineering of the Aristotle University of Thessaloniki from 2015 up to now (Αριθμός ΓΣ 9/2014-2015)

Associate Professor in the Laboratory of Building Materials School of Civil Engineering, AUTH since 2016 (ΦΕΚ διορισμού 3103/20.12.2016 τ.Γ')

Professor, in the Laboratory of Building Materials School of Civil Engineering, AUTH since 2016 (ΦΕΚ διορισμού 2937/1-12-2021 τ.Γ')

2. STUDIES

- Geologist degree AUTH (7,79) (1993)
- PhD School of Civil Engineering, AUTH (Excellent) (2000)
- Master Degree in Nanoscience and Nanotechnology, Physics Department AUTH (8,31) (2009-2011)

Scholarships

- **NATO** for a specialization for the study of the microstructure of historical mortars and traditional materials **ICCROM** (International Centre for the Conservation and Preservation of Materials), Rome, 1994
- **UNESCO** to attend a postgraduate training STONE CONSERVATION course organized by **ICCROM** , Venice,1995
- **LLP/ERASMUS** for training in atomic force microscopy (AFM) technique and technique of nano- indentation in company RMI Czech Republic 22-24/7/2013
- **ERASMUS+** for teaching at the University of Cyprus 9-15 April, 2016
- **ERASMUS+** International for teaching in the university Cadi Ayyad University, Morocco 4-9 November, 2018

Training seminars

- 4-month seminar on "Developing new methods with PC applications for the study of active cracks and other geological structures affecting the construction of large-scale engineering projects". Provides knowledge on the techniques for monitoring the evolution of cracks in large construction projects and applications in earthquake-prone areas (1993)
- Training, by attending special workshops aimed at analyzing the physical characteristics and structure of mortars and other building materials, on the use of:
 - Aging chambers (radiation, acid rain, freeze-thaw, salts) for durability tests
 - X-ray diffractometer (XRD)
 - Microscopes
 - Scanning Electron Microscope / Microanalysis (SEM)
 - Measurement of nitrogen absorption (B.E.T.) pores and specific surface area distribution
 - Particle size analysis with laser beam diffraction
 - Mercury Porosimetry (M.I.P.)
 - Atomic Force Microscopy (A.F.M.)
 - Nano-indentation
- Seminar on "Inert rock and building blocks" organized by the Hellenic Geological Society's Committee on Economic Geology, Mineralogy and Geochemistry. The workshop focuses on quality and financial controls on rocks used as inert materials in construction (1994)
- Seminar on "Identification and mapping of buried antiquities by geophysical methods" organized by the School of Sciences, School of Geology (22/11/2004)
- Seminar on "Concrete Microscopy Course, CMC 2005" Organized by: Technical University Delft, May 22-27, The Netherlands, 2005

Ξένες γλώσσες

- English (C1, 1986)
- German (B1, 1992)

Teaching assignments at the Aristotle University of Thessaloniki

Undergraduate Teaching

- BUILDING MATERIALS I compulsory module, from 2005 up to now
- Participation in the teaching team for CONSTRUCTION REPAIR OF CONCRETE AND MASONRY BUILDINGS elective course of the 9th semester of the Department of Civil Engineering of the Aristotle University of Thessaloniki from the academic year 2005-2006 to 2018
- Participation in the teaching team for BEHAVIOR AND PROPERTIES OF CONCRETE elective course of the 9th semester of the Department of Civil Engineering of the Aristotle University of Thessaloniki from the academic year 2005-2006 until today
- Participation in the teaching team for WOODEN STRUCTURES elective course of the 9th semester of the Department of Civil Engineering of the Aristotle University of Thessaloniki from the academic year 2015-2016 until today
- SPECIAL SUBJECTS OF BUILDING MATERIALS elective course of the 8th semester of the Department of Civil Engineering of the Aristotle University of Thessaloniki, 2015-2016 up to now

Post graduate teaching

- *Interdisciplinary Postgraduate Program Protection, Conservation and Restoration of AUTH of Cultural Monuments (1998- present) Participation in the teaching team in six subjects*
 - YO3 Materials of Historic Structures
 - EO2 Pathology, Protection and Stone Maintenance Techniques
 - EO6 Technology of ceramics
 - EO7 Technology of mortars based on lime
 - EO8 Modern Materials and Maintenance Techniques
 - B4.1 Methodology and methods of maintenance I
- *Invited professor in Master ii livello Research expert on Nanotechnologies and Nanomaterials for Cultural Heritage Universita degli Studi di Palermo, 2015*
- *Interdepartmental Interdisciplinary Postgraduate Program in Physical and Chemical Methods of Diagnosing Cultural Heritage Materials, from 2018 onwards. Course Participation:*
 - A.3 Phenomena, Mechanisms, Wear Diagnosis — Environmental Wear Factors
 - A.4 Cleaning, Consolidating & Protection Materials Determining the effectiveness of consolidation techniques
 - B5 Student laboratory practice lesson

- *Participation in the teaching team of Environmental Protection and Sustainable Development* " Department of Civil Engineering AUTH , Course ABBA01: " Environmental Impact Assessment" on" Environmental Impacts of Building Materials" Academic Year: 2019-20 up to now
- *Erasmus mundus joint master in archaeological materials Science (ARCHMAT)* a consortium of 3 Program Country degree-awarding HEIs (Evora-UEVORA, Thessaloniki-AUTH and Sapienza Rome -UNIROMA1) Course: Preventive conservation Academic Year: 2019-20 up to now
- Interdisciplinary Post-Graduate Master Program on Nanosciences and Nanotechnologies, Materials Engineering and Micro-Nano-structures Academic year 2020-2021

Supervision of doctoral theses

1. Maria Loukma "Typology, Technology and Building Materials of Modern Ottoman Temples in Central Macedonia. Materials Recording, Pathology and Maintenance "Maria Stefanidou, Assist. Professor, as Supervisor, beginning 2013- **concluded 18/12/2019**
2. Irene Tsardaka "Nanomodified Structural binders" Maria Stefanidou, Assist. Professor as Supervisor (beginning 2015)
3. Aspasia Karozou "Clay Protection" Maria Stefanidou, Assist. Professor as Supervisor, (beginning 2016)
4. Eleni Vassiliou "Starch Control and Modeling in the Rheology of Cement-Based Systems" Maria Stefanidou, Assist. Professor as Supervisor (beginning of 2016)
5. Evangelia Tsambali "Self-healing cementitious materials" Maria Stefanidou, Associate Professor as Supervisor (beginning 2018)
6. Petrini Kapragou "Bio-based building Materials" Maria Stefanidou, Associate Professor as Supervisor (beginning 2021)

Supervision of postdoctoral research

Michael Papachristoforou "Development and testing of concrete for automated production of special structures by the method of 3D printing" January 2019-December 2019 AUTH, Department of Civil Engineering Supervisor: M. Stefanidou- **Completed 12/2019**

Member of a three-member committee for a PhD dissertation

1. Michalis Papachristoforou "Study of concrete with slag-aggregate for shielding against exposure to radiation and high temperatures" Supervisor Professor I. Papayianni AUTH. Department of Civil Engineering, COMPLETED in 2013
2. Stavroula Konopisi "Geopolymerization study of aluminum-silicate cements for construction products". Ioanna Papayianni as Supervisor, (start of 2012) COMPLETED in 2018

3. Mavrommati Maria "Stone deterioration" Supervisor Professor P. Spathis AUTH. School of Chemistry Faculty of Sciences
4. Sidopoulos Vasilis "Modified steel" Supervisor Professor E. Pavlidou AUTH. School of Physics, Faculty of Sciences
5. Chrysanthy Papoulia "Parametric study of adhesion between repair materials and old substrate" Supervisor Professor E. Pavlidou AUTH. School of Physics, Faculty of Sciences

Speaker in 15 scientific seminars related to: Conservation of Ancient Masonry, Design and Implementation of Compatible Materials for Interventions in Monuments and Historic Buildings, composition of traditional mortars, pathology of masonry, durable and Economical Concrete Design for Environmentally Friendly Buildings, Clay Technology as a Building Material. Fastening-Maintenance of Brickworks, Materials and Techniques for the Restoration of Monuments Compatibility, Durability, Sustainability and Economy issues in Retrofitting Heritage Structures from 1998 up to now

Participation in workshops

- Papayianni I., Stefanidou M. "Study of old masonry materials of the Galerius Complex" Workshop on Restoration of the Galerius Palaces Organized by the Ephorate of Prehistoric and Classical Antiquities, Thessaloniki September 24, 1998
- Stefanidou M. Concerns and Possibilities of Culture-Net Members - Building Materials Laboratory Research Network Analysis - Research - Diagnosis of Cultural Works Aristotle University of Thessaloniki, Research Committee, December 20, 2004
- Stefanidou M. "Stones in Structure - Pathology-Conservation Methods" Workshop on PETRA AND ARCHITECTURE, April 3, 2005, organized by the Association of Architects of Chalkidiki ,2005
- Stefanidou M. "Compatible, advanced technology, restoration materials" Sustainability and compatibility of advanced materials and technologies for cultural heritage protection: development of criteria and control methodologies THALIS-AIS Thessaloniki, Museum of Byzantine Culture,2015
- Stefanidou M. "Improving the properties of building materials by using new technologies" as a representative of the Department of Civil Engineering, AUTH at the Thessaloniki Chamber of Commerce and Industry, on the trends and prospects in the construction materials and construction sector, October 2018

Participation in Conference and Seminar Organizing Committees

- 3rd National Conference on Restoration, Society for Research and Promotion of the Scientific Restoration of Monuments (ETEPAM), Athens 1-3 November 2012
- 10th International conference on Nanosciences and Nanotechnologies 9-12 July Θεσσαλονίκη Workshop 2 Nanomaterials, 2013

- 11th International conference on Nanosciences and Nanotechnologies 5-9 July
Θεσσαλονίκη Workshop 2 Nanomaterials, 2014
- MARE 14 Materials and Techniques for the Restoration of Monuments
Compatibility, Durability, Sustainability and Economy issues in Retrofitting Heritage
Structures 6-20 July 2014
- 12th International conference on Nanosciences and Nanotechnologies 5-9 July
Θεσσαλονίκη Workshop 2 Nanomaterials, 2015
- 4^o National Conference on Restoration, Society for Research and Promotion of the
Scientific Restoration of Monuments (ETEPAM), Thessaloniki, 2015
- 13th International conference on Nanosciences and Nanotechnologies 5-7 July
Θεσσαλονίκη Workshop 2 Nanomaterials, 2016
- 4th Historic Mortar Conference Santorini, 9-12 October 2016 Organized by Aristotle
University of Thessaloniki Lab of Building Materials
- Organizer and speaker in the 3rd Training School of SARGOS-COST, titled "Advanced
solutions for the external repair of concrete" Thessaloniki 20-23 January, 2020

Participation in Scientific Conference Committees

- YOCOCU (YOUTH in CONSERVATION of CULTURAL heritage) 2016 international conference
to be held at the Museo Nacional Centro de Arte Reina Sofía (MNCARS-Madrid), 25th -
27th May 2016.
- Historical Masonry Lyngby, Denmark, 21-24 August 2016 Materials, Systems and
Structures in Civil Engineering – MSSCE 2016 RILEM week
- 4th Historic Mortar Conference Santorini, 9-12 October 2016 Organized by Aristotle
University of Thessaloniki Lab of Building Materials
- 18^o National Conference on Concrete, Athens, 29-31/3/2018
- SynerCrete 18 International conference on Interdisciplinary Approaches for cement-
based Materials and Structural Concrete 24-26 October 2018, Madeira, Portugal
- 5^o National Conference on Restoration (ETEPAM) January, 2019
- 5th Historic Mortar Conference Organized by the University of Navarra (Pamplona,
Spain) from 19 -21 June 2019
- International workshop on Lime based materials for repairing historic Structures,
Politecnico di Milano, 23 - 24 April 2020
- Member of the Scientific Committee of the first edition of "Lime & Earth Construction
Course" organized by Centro da Terra Association, the University of Aveiro and APRUPP.
July 29th - August 2nd 2020 Casa da Arquitectura, Porto, Portugal.

- International Lime Conference, Faculty of Sciences Semailia, Marrakesh 16 -18 April 2020, Morocco
- 14th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING-ACE2020 Istanbul/Turkey on September 9-11 2020 by Yildiz Technical University
- 2nd International Conference "Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage: Rebranding the World in Crisis through Culture (TMM_CH)", December 12 – 15, 2021, Athens, Greece

Gest Editor in scientific journal

Materials, open access journal, ISSN 1996-1944 www.mdpi.com/journal/materials, I.F. 2.972 Special Issue "Research and Development of Modified Building Materials" 2020

Administrative experience

- Director of the Laboratory of Building Materials School of Civil Engineering, Aristotle University of Thessaloniki, (Decision 9 / 2014-2015) up to date
- Coordinator of the university agreements section of the program Erasmus+ mobility for learners and staff-Higher Education Student and Staff Mobility, Agreement Started the academic year 2020-2021
- Member of the General Assembly of the Division of Construction Sector and Technology of the School of Civil Engineering from 2005 up to now
- Member of the General Assembly of the School of Civil Engineering from 2010 up to 2019
- Chairman of the Committee for the Creation of Electronic Bulletin of the School of Civil Engineering from 2007 up to 2010
- Participation in committees of the Department (Student Care and Student Affairs, Qualifications, Receipt of Supplies, Services or Projects for the needs of the division) and from 2018 up to date Member of the Committee on European, International Relations and Partnerships
- Head of Quality Management of the Laboratory of Building Materials in the context of implementing a Quality Management Policy by ISO9001:2018 from 2005- up to date
- Full member of the Receipt Committee of the International Open Procedure Competition entitled "SUPPLY AND EQUIPMENT INSTRUMENTS TO ENHANCE TECHNOLOGICAL RESEARCH INVESTIGATION. of Competition No. 411/2018 total amount 5.331.800,00€ 2020
- Full member of the Evaluation Committee of the International Open Tender Electronic Competition titled "SUPPLY AND EQUIPMENT INSTRUMENTS TO ENHANCE TECHNOLOGICAL RESEARCH RESEARCH of tender No 464/2019 totaling 817.907.72, 2019

- Coordination of 12 projects in AUTH Research Committee from 2013- today

Other activities

- Traineeship supervision Erasmus + International Student Soukaina Ajouguim, PhD student from Morocco titled "Use of biofibres in cement mortars" from 22 September 2017 to 22 December 2017.
- Evaluator in a European proposal European Research Council in the evaluation process for the ERC Starting Grant 2018 Call, ERC-STG-PE8
- Traineeship supervision Erasmus + International Student Borja Wafaa PhD student from Morocco titled "Characterization of ceramic mixtures using by-products" from 10 October 2018 to 20 February 2018.
- Traineeship supervision Erasmus + student Jamie Branco from Portugal titled "Hydrophobic approaches to wooden elements" from 6 March to 7 June 2018
- Reviewer for PhD European degree titled «The influence of natural aggregates on the performance of replacement mortars for ancient buildings: the effects of mineralogy, grading and shape" by Ana Rita Lopes dos Santos, Universidade de Lisboa, Instituto Superior Tecnico, supervisor: Dr. M.do Rosario da Silva Veiga, Portugal, 2019
- Evaluator in a European proposal European Research Council in the evaluation process for the ERC Starting Grant 2019 Call, ERC-2020-STG

4. RESEARCH ACTIVITY

Participation in 7 European programs as a member of a research team as mentioned below:

1. "Materials for consolidation and restoration of monuments and historical buildings. Development of criteria for their suitability for intervention (1993-1999) GR-Restoration NATO Science for Stability Programme Scientific responsible: I.Papayianni
2. EC-FORTMED "Restoration and use of the Early Medieval Fortifications in the East Mediterranean Countries" (2000-2005) Scientific responsible: I.Papayianni *Honorable distinction from EUROPA NOSTRA (AWARD 2004) as a research associate in the European project EC-FORTMED for the restoration study of the Castle of Serbia.*
3. CULTURE 2000-PHAROS "Holistic Strategy for the Preservation, Restoration and Integration in the life of the modern societies of old European Masonry Lighthouses-Pharos" (2004-2007) Scientific responsible: I.Papayianni
4. Marie Curie EPISCON- "European PhD in Science for conservation" (2005-2009) Scientific responsible: I. Papayianni
5. Life program -Integration of end-of-life tires in the life cycle of road construction (2010-2012) Scientific responsible: Karagiannis A.

6. COST Action CA15202 COST Association «Self-healing As preventive Repair of COncrete Structures» Action Chair: Dr MERCEDES SANCHEZ MORENO (2016-2020)
7. PROM – International scholarship exchange of doctoral students and academic staff PPI/PRO/2019/1/00008/U/00001 με to West Pomeranian University of Technology Szczecin Poland. The Programme is co-financed by the European Social Fund under the Knowledge Education Development Operational Program, September 2020

Participation in 87 national programs as a member of a research team related to analysis of old building materials, testing raw materials and composing repair materials testing.

Scientific responsible in 21 research projects from 2017 up to now (as Associate Professor), total budget >250.000€.

5. LIST OF SCIENTIFIC PAPERS

1. Publications in peer-reviewed international journals

- 1.1 Papayianni I., Stefanidou M. "Mortars for intervention in monuments and historical buildings" *Advances in Architecture*, Volume 15, 2003, 57-64
- 1.2 Stefanidou M., Papayianni I. "Experimental Study for the consolidation of stone of old fortification" *Advances in Architecture Series*, 20, 2005, 395-403
- 1.3 Papayianni I., Stefanidou M. "Strength-porosity relationships in Lime- Pozzolan mortars" *Construction and Building Materials*, Vol. 20 Issue 9 November 2006 pp.700-705
- 1.4 Stefanidou M., Papayianni I. "The role of aggregates on the structure and properties of lime mortars" *Cement and Concrete Composites*, Vol. 27 Issues 9-10 October- November 2006, pp. 914-919
- 1.5 Papayianni I., Stefanidou M. "Durability aspects of Ancient Mortars of the archeological site of Olynthos" *Journal of Cultural Heritage*, Volume 8, Issue 2, April-June 2007, pp.193-196
- 1.6 Stefanidou M., Assael M.J., Antoniadis K., Matziarioglou G. "Thermal Conductivity of Building Materials Employed in the Preservation of Cultural Heritage Buildings" *International Journal of Thermophysics*: Volume 31, Issue 4 2010, Page 844
- 1.7 Stefanidou M. "Methods for measuring porosity of lime-based mortars" *Construction and Building Materials* 24, 2010, 2572-2578

- 1.8 Stefanidou M. "Role of water-binder ratio on the porosity in lime-based mortars" International Review of Civil Engineering (I.R.E.C.E.) ISSN 2036-9913 Vol.1 N1 March 2010, p.78-82
- 1.9 Stefanidou M. "Approaches to the problem of limestone replacement" Limestone in the Built Environment: Present Day Challenges for the Preservation of the Past, Geological Society of London, 2010, 331(1) p.113-117 Publishing House, UK
- 1.10 Papayianni I., Stefanidou M. "The role of fines in lime-based mortar's technology" Romanian Journal of Materials, 41, (1) 2011, p.26-29
- 1.11 Zyganitidis I., M. Stefanidou, I. Papayianni, S. Logothetidis "Nanomechanical Characterization of Cement-based pastes enriched with SiO₂ nanoparticles" Materials Science and Engineering B, vol.176, (19), 2011, p. 1580-1584
- 1.12 Katia Matziaris, Maria Stefanidou, Georgios Karagiannis "Impregnation and superhydrophobicity of coated porous low-fired clay building materials" Progress in Organic Coatings, vol. 72, issue 1-2, 2011, p.181-192
- 1.13 Stefanidou M., Papayianni I., Pachta V. "Evolution of Inclusions in historic mortars" Archaeometry 54, (4), 2012, p. 737–751
- 1.14 Stefanidou M., Papayianni I. "Influence of nano-SiO₂ on the Portland cement pastes" Composites Part B, 43,(6), 2012, p.2706-2710
- 1.15 Papayianni I., Pachta V., Stefanidou M. "Experimental study of nano-modified lime-based grouts" World Journal of Engineering 9(6), 2012, 501-508
- 1.16 Papayianni I., Pachta V., Stefanidou M. "Analysis of ancient mortars and design of compatible repair mortars: The case study of Odeion of the archaeological site of Dion" Construction and Building Materials 40, 2013, 84–92
- 1.17 Stefanidou M., Matziaris K., Karagiannis G. "Hydrophobization by Means of Nanotechnology on Greek Sandstones Used as Building Façades" Geosciences 2013, 3, 30-45
- 1.18 Stefanidou M. "Nano-modified lime-pozzolan pastes" Romanian Journal of Materials, 2013, 43 (2) p.223-226
- 1.19 Vasiliki Pachta, Maria Stefanidou, Stavroula Konopisi and Ioanna Papayianni "Technological Evolution of Historic Structural Mortars" July 2014, Volume 8, No. 7 (Serial No. 80), pp. 846-854 Journal of Civil Engineering and Architecture, ISSN 1934-7359, USA
- 1.20 Anastasiou E., Georgiadis-Filikas K., Stefanidou M. "Utilization of fine recycled aggregates in concrete with fly ash and steel slag" Construction and Building Materials 50, 2014, 154–161

- 1.21 Stefanidou M., Pachta V., Konopisi S., Karkadelidou F., Papayianni I. "Analysis and characterization of hydraulic mortars from ancient cisterns and baths in Greece" *Materials and Structure* Volume 47, Issue 4, 2014, Page 571-580
- 1.22 Stefanidou M., I. Papayianni, V. Pachta "Analysis and Characterization of Roman and Byzantine fired bricks from Greece" *Materials and Structures* DOI 10.1617/s11527-014-0306-7
- 1.23 Stefanidou M. "Cement-based renders with insulating properties" *Construction and Building Materials*, Volume 65, 2014, Pages 427–431
- 1.24 Stefanidou M., E. Anastasiou, K. Georgiadis Filikas "Recycled sand in lime-based mortars" *Waste Management* 34, 2014, pp. 2595-2602
- 1.25 Stefanidou M., V. Pachta "Technological characteristics of coatings applied in monuments of the 4th C BC in Greece" *Romanian Journal of Materials* 2015, 45 (1), 35 – 42
- 1.26 Stefanidou M., Pachta V., Papayianni I. "Design and testing of artificial stone for the restoration of stone elements in monuments and historic buildings" *Construction and Building Materials*, vol.93 (2015) p.957-965
- 1.27 C. Nunes,; Z. Slížková,; M. Stefanidou; J. Němeček "Microstructure of lime and lime-pozzolan pastes with nanosilica" *Cement and Concrete Research* 83, (2016), 152-163
- 1.28 Stefanidou M. A. Karozou "Testing the effectiveness of protective coatings on traditional bricks" *Construction and Building Materials* 111 (2016) 482–487
- 1.29 Stefanidou M. "Natural pozzolans as sustainable building materials" *Environmental Earth Sciences* May (2016), 75:758
- 1.30 Stefanidou M., E. Anastasiou, O. Mantziou, E. Mpougla, E. Vasiliou, P. D. Konti, K. Antoniadis "Incorporation of Glass Particles in High-Performance Mortars" *Waste and Biomass Valorization* DOI 10.1007/s12649-016-9501-9
- 1.31 Stefanidou M. "Crushed and River-Origin Sands Used as Aggregates in Repair Mortars" *Geosciences* 2016, 6 (2), 23, doi:10.3390/geosciences6020023
- 1.32 Loukma M., M. Stefanidou, "The morphology and typology of the ottoman mosques of northern Greece" *International Journal of Heritage Architecture*, Vol. 1, No. 1 (2017), 78–88
- 1.33 Goudouri O., Kontonasaki E., Papadopoulou L., Manda MKavouras P., Triantafyllidis K., **Stefanidou M.**, Koidis P., Paraskevopoulos K. "An experimental bioactive dental ceramic for metal-ceramic restorations: Textural characteristics and investigation of the mechanical properties" *Journal of the Mechanical Behavior of Biomedical Materials* (2017) 66 95-103
- 1.34 Lubelli B., Cnudde V., Diaz-Goncalves T., Franzoni E., van Hees Rob P.J., Ioannou I., Menendez B., Nunes C., Siedel H., **Stefanidou M.**, Verges-Belmin V., Viles H. "Towards a more effective and reliable salt crystallization test for porous building

- materials: state of the art" Materials and Structures DOI : 10.1617/s11527-018-1180-5, 2018
- 1.35 Stefanidou M. Eleni Pavlidou "Scanning Mortars to Understand the Past and Plan the Future for the Maintenance of Monuments" Scanning, Hindawi, Volume 2018, Article ID 7838502, <https://doi.org/10.1155/2018/7838502>
 - 1.36 Pachta V., Maria Stefanidou "Technology of multilayer mortars applied in ancient floor mosaic substrates" Journal of Archaeological Science: Reports, Volume 20, August 2018, Pages 683-691
 - 1.37 Pachta V., S. Triantafyllaki M. Stefanidou "Performance of lime-based mortars at elevated temperatures" Construction and Building Materials Volume 189, 20 November 2018, Pages 576-584
 - 1.38 Pachta V., Pinelopi Marinou, Maria Stefanidou "Development and testing of repair mortars for floor mosaic substrates" Journal of Building Engineering 20 (2018) 501–509
 - 1.39 Sánchez M., P. Faria, L. Ferrara, E. Horszczaruk, H.M. Jonkers, A. Kwiecień, J. Mosa, A. Peled, A.S. Pereira, D. Snoeck, **M. Stefanidou**, T. Stryzewska, B. Zając "External treatments for the preventive repair of existing constructions: A review" Construction and Building Materials 193 (2018) 435-452
 - 1.40 Loukma M., Stefanidou M. Causes of deterioration of Ottoman mosques" WIT Transactions on the Built Environment (2018) 177 173-180
 - 1.41 Ajouguim, S. K. Abdelouahdi, M. Waqif, **M. Stefanidou**, L. Saadi "Modifications of Alfa fibers by alkali and hydrothermal treatment" Cellulose, Springer <https://doi.org/10.1007/s10570-018-2181-9>
 - 1.42 Eirini-Chysanthi Tsardaka, Maria Stefanidou "Application of an alternative way for silica fume dispersion in cement pastes without ultrasonication" Cement and Concrete Research Volume 115, January 2019, Pages 59-69
 - 1.43 A. Karozou, S. Konopisi, E. Paulidou, M. Stefanidou "Alkali activated clay mortars with different activators" Construction and Building Materials 212, 2019, 85-91
 - 1.44 Pachta V., Papadopoulos F., Stefanidou M. "Development and testing of grouts based on perlite by-products and lime" Construction and Building Materials 207:338–344 February 2019
 - 1.45 F. Kesikidou, M. Stefanidou "Natural fiber-reinforced mortars" Journal of Building Engineering, Volume 25, September 2019, 100786
 - 1.46 Tsardaka Ei. & M. Stefanidou "The Effects of Single and Combined Nanoparticles in the Properties of Air Lime Pastes" International Journal of Architectural Heritage <https://doi.org/10.1080/15583058.2019.1703152> Taylor & Francis
 - 1.47 Maria Stefanidou, Evangelia Tsampali, Georgios Karagiannis, Stamatios Amanatiadis, Andreas Ioakim, Spyridon Kassavetis "Techniques for recording

- self-healing efficiency and characterizing the healing products in cementitious materials" *Mat Design Process Comm.* 2020;1–14, DOI: 10.1002/mdp2.166 2020 John Wiley & Sons, Ltd
- 1.48 V. Pacht, Ch. Serpezoudi, M. Stefanidou "The influence of consolidants on the adhesion of double-layer mortars based on lime" *Journal of Cultural Heritage* (accepted) 2020
- 1.49 Soukaina Ajouguim, **Maria Stefanidou**, Karima Abdelouahdi, Mohamed Waqif & Latifa Saâdi "Influence of treated bio-fibers on the mechanical and physical properties of cement mortars" *European Journal of Environmental and Civil Engineering* <https://doi.org/10.1080/19648189.2020.1782773>, 2020
- 1.50 Vasiliki Pacht, Eirini-Chrysanthi Tsardaka, Maria Stefanidou "The role of flame retardants in cement mortars exposed at elevated Temperatures" *Construction and Building Materials* 273 (2021) 122029

Open access journals

- 1.51 Tzileroglou Cr., Maria Stefanidou, Spyridon Kassavetis, Stergios, Logothetidis "Nanocarbon materials for nanocomposite cement mortars" *Materials Today: Proceedings* 4, 2017, 6938–6947
- 1.52 Maria Stefanidou, Eirini- Chrysanthi Tsardaka, Eleni Pavlidou "Influence of nano-silica and nano-alumina in lime-pozzolan and lime-metakaolin binders" *Materials Today: Proceedings* 4, 2017, 6908–6922
- 1.53 L. Rosato, M. Stefanidou, G. Milazzo, F. Fernandez, P. Livreri, N. Muratore, L. M. Terranova "Study and evaluation of nano-structured cellulose fibers as additive for restoration of historical mortars and plasters" *Materials Today: Proceedings* 4, 2017, 6954–6965
- 1.54 Stefanidou M., F. Kesikidou, K. Antoniadis "Application techniques for high-performance traditional renders" *Procedia Environmental Sciences*, 38,2017, 242 – 247
- 1.55 Papachristoforou M., V. Mitsopoulos, M. Stefanidou "Workability in 3D printing concrete" *Procedia Structural Integrity* PROSTR1041 S2452-3216,2018, 30071-4
- 1.56 Papachristoforou M., V. Mitsopoulos, M. Stefanidou "Use of by-products for partial replacement of 3D printed concrete constituents; rheology, strength and shrinkage performance" *Frattura ed Integrità Strutturale*, 50, 2019, 526-536; DOI: 10.3221/IGF-ESIS.50.44
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4. Journal of Materials in Civil engineering- Elsevier
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6. Current Advances in Civil Engineering- American V-King Scientific Publishing
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15. Geoarchaeology John Wiley & Sons
16. Advances in Concrete Construction, Techno-Press
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20. Journal of Cleaner Production- Elsevier

Participation in Scientific Committees

- RILEM TC-RHM Repair mortars for Historic Masonry από το 2005, President Dr C. Groot
- RILEM TC-SGM, Specifications for non-structural grouting of historic masonries and architectural surfaces President Dr C. Groot
- RILEM TC 271-ASC Specifications for salts President Barbara Lubelli 2016-2019
- RILEM TC LHS Specifications for testing and evaluation of lime-based repair materials for historic Structures President Ιωάννα Παπαγιάννη 2017-2020

- Applied Petrography Group of the Geological Society of London
(www.appliedpetrographygroup.com).

- Member of ETEPAM, a non- profit National scientific society, located in Thessaloniki,
Greece, founded in 2004