

INTERNATIONAL SCIENTIFIC JOURNALS

1. Kontopoulos, A., Sideris, I., Moropoulou, A., "Prereduction roasting-smelting of the Grecian red Mad", *Academie Yougoslave des Sciences et des Arts*, 11, No 16 (1981) pp. 315-324
2. Kokovides, K., Loizidou, M., Haralambous, K. J., Moropoulou, A., "Environmental study of the marinas, Part I. A study on the pollution in the marinas area", *Environmental Technology*, 13 (1992) pp. 239-244
3. Moropoulou, A., Theoulakis, P., Dogas, Th., "The behaviour of fluoropolymers and silicon resins as water repellents under salt decay conditions in combination with consolidation treatments on highly porous stone", *Science and Technology for Cultural Heritage*, 3 (1994) pp. 113-122
4. Moropoulou, A., Theoulakis, P., Bisbikou, K., "Methodological contribution to the characterization and assessment of ceramic technology: The case of the bricks of the Corfu Venetian Fortress", *Revue des Archeologues et Historiens d'Art de Louvain*, 27 (1994) pp. 129-143.
5. Moropoulou, A., Theoulakis, P., Chrysophakis, T., "Correlation between stone weathering and environmental factors in marine atmosphere", *Atmospheric Environment*, 29, No 8 (1995) pp. 895-903
6. Biscontin, G., Bakolas, A., Moropoulou, A., Repaci, G., Zendri, E., "Degradation processes of dolomitic limestones in monuments", *Science and Technology for Cultural Heritage*, 4, No 2 (1995) pp. 43-49
7. Charstaras, B., Moropoulou, A., "Environmental effects on the Monasteries of Mount Athos; The case of Symonos Petra Monastery", *Soil dynamics and earthquake engineering*, 14 (1995) pp. 307-312
8. Cakmak, A.S., Moropoulou, A., Mullen, C.L., "Interdisciplinary Study of Dynamic Behaviour and Earthquake Response of Hagia Sophia", *Soil dynamics and earthquake engineering*, 14, No 9 (1995) pp. 125-133
9. Moropoulou, A., Bakolas, A., Bisbikou, K., "Thermal analysis as a method of characterizing ancient ceramic technologies", *Thermochimica Acta*, 2570 (1995) pp. 743-753
10. Moropoulou, A., Bakolas, A., Bisbikou, K., "Characterization of ancient, byzantine and later historic mortars by thermal analysis and X-ray diffraction techniques", *Thermochimica Acta*, 269/270 (1995) pp. 779-795
11. Moropoulou, A., Biscontin, G., Bisbikou, K., Bakolas, A., Zendri, E., "'Opus Caementicium' Mortars and Plasters in a Heavily Polluted Marine Atmosphere", *Il Cemento*, 92 (1995) pp. 261-278
12. Moropoulou, A., Kouli, M., Theoulakis, P., Kourтели, Ch., Zezza, F., "Digital Image Processing for the Environmental Impact Assessment on Architectural Surfaces", *J. Environmental Chemistry and Technology*, 1 (1995) pp. 23-32
13. Moropoulou, A., Bisbikou, K., Charstaras, B., Kassoli - Fournaraki, A., Zouros, N., Makedon, Th., Fitzner, B., Heinrichs, K., "Examination of the weathering susceptibility of the building stones of Demeter Sanctuary in Eleusis: 1: Origin, petrography and physical, mechanical and microstructural properties", *Bollettino Geofisico*, 18, No 1 (1995) pp. 37-48
14. Bakolas, A., Biscontin, G., Moropoulou, A., Zendri, E., "Characterization of the lumps in the mortars of historic masonry", *Thermochimica Acta*, 269/270 (1995) pp. 809-816

15. Bakolas, A., Biscontin, G., Contardi, V., Franceschi, E., Moropoulou, A., Palazzi, D., Zendri, E., "Thermoanalytical research on traditional mortars in Venice", *Thermochimica Acta*, 269/270 (1995) pp. 817-828
16. Moropoulou, A., Tsiourva, T., Bisbikou, K., Biscontin, G., Bakolas, A., Zendri, E., "Hot lime technology imparting high strength to historic mortars", *Construction and Building Materials*, 10, No 2 (1996) pp. 151-159
17. Bakolas, A., Biscontin, G., Moropoulou, A., Zendri, E., "Salt impact on brickwork along the canals of Venice", *Materials and Structures*, 29 (1996) pp. 47-55
18. Simwonis, D., Naoumidis, A., Dias, F.J., Linke, J., Moropoulou, A., "Material characterization in support of the development of an anode substrate for solid oxide fuel cells", *J. Materials Research*, 12, No 16 (1997) pp. 1508-1518
19. Moropoulou, A., Biscontin, G., Bakolas, A., Bisbikou, K., "Technology and behavior of rubble masonry mortars", *Construction and Building Materials*, 11, No 2 (1997) pp. 119-129
20. Theoulakis, P., Moropoulou, A., "Microstructural and mechanical parameters determining the susceptibility of porous building stones to salt decay", *Construction and Building Materials*, 11, No. 1 (1997) pp. 65-71
21. Moropoulou, A., Bisbikou, K., Torfs, K., Van Grieken, R., Zezza, F., Macri, F., "Origin and growth of weathering crusts on ancient marbles in industrial atmosphere", *Atmospheric Environment*, 32, No 6 (1998) pp. 967-982
22. Moropoulou, A., Bisbikou, K., Torfs, K., Van Grieken, R., "Atmospheric deposition as decay factor for the Demeter Sanctuary ruins in the industrial atmosphere of Eleusis, Greece", *Environmental Technology*, 19 (1998) pp. 1039-1047
23. Bakolas, A., Biscontin, G., Moropoulou, A., Zendri, E., "Characterization of structural byzantine mortars by thermogravimetric analysis", *Thermochimica Acta*, 321 (1998) pp. 151-160
24. Moropoulou, A., Kouli, M., Avdelidis, N.P., Achilleopoulos, N., "NDT for materials quality control, environmental impact assessment and management of cultural heritage", *INSIGHT, J. of the British Institute of non-destructive testing*, 41, No 6 (1999) pp. 362-368
25. Theoulakis, P., Moropoulou, A., "Salt crystal growth as weathering mechanism of porous stone on historic masonry", *J. Porous Materials*, 6 (1999) pp. 345-358
26. Moropoulou, A., Bakolas, A., Bisbikou, K., "Investigation of the technology of historic mortars", *J. Cultural Heritage*, 1 (2000) pp. 45-58
27. Moropoulou, A., Bakolas, A., Bisbikou, K., "Physico-chemical adhesion and cohesion bonds in joint mortars imparting durability to the historic structures", *Construction and Building Materials*, 14, No 1 (2000) pp. 35-46
28. Kouli, M., Moropoulou, A., Bisbikou, K., "Cholesteric liquid crystals as weathering indicators for marble surfaces", *Liquid Crystals*, 27, No 12 (2000) pp. 1561-1571
29. Moropoulou, A., Kouli, M., Avdelidis, N.P., "Infrared thermography as a NDT tool in the evaluation of materials & techniques for the protection of historic monuments", *INSIGHT, J. of the British Institute of non-destructive testing*, 42 No 6 (2000) pp. 379-383
30. Moropoulou, A., Cakmak, A.S., Lohvyn, N., "Earthquake resistant construction techniques and materials of byzantine monuments in Kiev", *Soil Dynamics and Earthquake Engineering*, 19 (2000) pp. 603-315

31. Moropoulou, A., Avdelidis, N.P., Kouli, M., Tzevelekos, I., "Determination of emissivity for building materials using infrared thermography", *Thermology International*, 10, No 3, (2000) pp. 115-118
32. Moropoulou, A., Bakolas, A., Moundoulas, P., Michailidis, P., "Evaluation of compatibility between repair mortars and building materials in historic structures by the control of the microstructure of cement-based systems", *Concrete Science and Engineering*, 2 (2000) pp. 191-195
33. Moropoulou, A., Avdelidis, N.P., Kouli, M., Kakaras, K., "An application of thermography for detection of delaminations in airport pavements", *NDT&E International*, 34, No 5 (2000) pp. 329-335
34. Moropoulou, A., Avdelidis, N.P., Kouli, M., "Detection of defects of airport pavements using infrared thermography", *J. Canadian Society of NDT*, 21, No 5 (2000) pp. 5-8
35. Moropoulou, A., Bisbikou, K., Van Grieken, R., Torfs, K., "Correlation between aerosols, deposits and weathering crusts on ancient marbles", *Environmental Technology*, 22, No 6 (2001) pp. 607-618
36. Moropoulou, A., Bakolas, A., Aggelakopoulou, E., "The effects of limestone characteristics and calcination temperature to the reactivity of quicklime" *Cement and Concrete Research*, 31 (2001) pp. 633-639
37. Avdelidis N.P., Gill, C., Moropoulou, A., "Interaction of glass surfaces with environment and strength variation using weibull analysis", *Rivista della Stazione Sperimentale del Vetro*, 30, No 6 (2001) pp. 117-120
38. Moropoulou, A., Avdelidis, N.P., Aggelakopoulou, E., Griniezakis, S., Kouli, M., Aggelopoulos, A., Karmis, P., Uzunoglou, N.K., "Examination of plastered mosaic surfaces using NDT techniques", *INSIGHT J. of the British Institute of non-destructive testing*, 43, No 4 (2001) pp. 241-243
39. Moropoulou, A., Kouloumbi, N., Bakolas, A., Haralampopoulos, G., «Performance evaluation of conservation interventions to porous stone facades of historic buildings in heavily polluted urban centers», *Pitture e Vernici European Coatings*, 12/13 (2001) pp. 19-28
40. Moropoulou, A., Zervos, S., Mavrantonis, P., "Quality control and optimization of the conservation treatments applied to the material of the archives of KKE (Greek Communist Party)", *Restaurator*, 22 (2001) pp. 146-163
41. Moropoulou, A., Kouli, M., Kourteli, Ch., Theoulakis, P., Avdelidis, N.P., "Integrated methodology for measuring and monitoring salt decay in the Medieval City of Rhodes porous stone", *J. Mediterranean Archaeology and Archaeometry*, 1 [1] (2001) pp. 37-68
42. Moropoulou, A., Avdelidis, N.P., Kouli, M., Aggelopoulos, A., Karmis, P., "Infrared Thermography and ground penetrating radar for airport pavements assessment", *Nondestructive Testing and Evaluation*, 18, No 1 (2002) pp. 37-42
43. Moropoulou, A., Kefalonitou, S., "Efficiency and countereffects of cleaning treatment on limestone surfaces - Investigation on the Corfu Venetian Fortress", *Building and Environment*, 37 (2002) pp 1181-1191
44. Moropoulou, A., Biscontin, G., Tsiourva, Th., Bisbikou, K., Longega, P., Tsantila, V., Groggia, M., Dalaklis, E., Petritaki, A., "Evaluation of cleaning procedures on the facades of the Bank of Greece historical building in the centre of Athens", *Building and Environment*, 37 (2002) pp 753-760

45. Moropoulou, A., Cakmak, A.S., Polykreti, K., “Provenance and technology investigations of the Agia Sophia bricks”, *J. American Ceramic Society*, 85 [2] (2002) pp. 366-372
46. Moropoulou, A., Avdelidis, N.P., “Active thermography in the assessment of aircraft repaired panels”, *INSIGHT, J. of the British Institute of non-destructive testing*, 44 [3] (2002) pp. 145-150
47. Moropoulou, A., Cakmak, A.S., Biscontin, G., Bakolas, A., Zendri, E., “Advanced Byzantine cement based composites resisting earthquake stresses: The crushed brick-lime mortars of Justinian’s Hagia Sophia”, *Construction and Building Materials*, 16 [18] (2002) pp. 543-552
48. Stathis, G., Simwonis, D., Tietz, F., Moropoulou, A., Naoumides, A., “Oxidation and resulting mechanical properties of Ni/8YSZ anode substrate for SOFC”, *J. Materials Research*, 17 [5] (2002) pp. 951-958
49. Moropoulou, A., Haralampopoulos, G., Tsiourva, T., Auger, F., Birginie, J.M., “Artificial weathering and non-destructive tests for the performance evaluation of consolidation materials applied on porous stones”, *Materials and Structures*, 36 (2003) pp. 210-217
50. Cardell, C., Delalieux, F., Roumbopoulos, K., Moropoulou A., Auger, F., Van Grieken, R., “Salt-induced decay in calcareous stone monuments and buildings in a marine environment in SW France”, *Construction and Building Materials*, 17 (2003) pp 165-173
51. Cardell, C., Rivas, T., Mosquera, M.J., Birginie, J.M., Moropoulou, A., Prieto, B., Silva, B., Van Grieken, R., “Patterns of damage in igneous and sedimentary rocks under conditions simulating sea-salt weathering”, *Earth Surface Processes and Landforms*, 28 (2003) pp 1-14
52. Maravelaki-Kalaitzaki, P., Bakolas, A., Moropoulou, A., “Physico-chemical study of cretan ancient mortars”, *Cement and Concrete Research*, 33 [5] (2003) pp. 651-661
53. Moropoulou, A., Polikreti, K., Bakolas, A., Michailidis, “Correlation of physico-chemical and mechanical properties of historical mortars and classification by multivariate statistics”, *Cement and Concrete Research*, 33 [6] (2003) pp. 891-898
54. Moropoulou, A., Polikreti, K., Ruf, V., Deodatis G., “San Francisco Monastery, Quito, Ecuador: characterisation of building materials, damage assessment and conservation considerations”, *Journal of Cultural Heritage*, 4 (2003) pp. 101-108
55. Avdelidis, N.P., Moropoulou, A., Theoulakis, P., “Detection of water deposits and movement in porous materials by infrared imaging”, *Infrared Physics and Technology*, 44 (2003) pp. 183-190
56. Avdelidis, N.P., Moropoulou, A., Marioli Riga, Z.P., “The technology of composite patches and their structural reliability inspection using infrared imaging”, *Progress in Aerospace Sciences*, 39 (2003) pp. 317-328
57. Avdelidis, N.P., Moropoulou, A., “Emissivity considerations in building thermography”, *Energy and Buildings*, 35 [7] (2003) pp. 663-667
58. Moropoulou, A, Zervos, S., “The immediate impact of Aqueous Treatments on the strength of Paper”, *Restaurator*, 24 (2003) pp. 160-177
59. Moropoulou, A., Kouloumbi, N., Haralampopoulos, G., Konstanti, A., Michailidis, P., “Criteria and methodology for the evaluation of conservation interventions on treated porous stone susceptible to salt decay”, *Progress in Organic Coatings*, 48 [2-4] (2003) pp. 259-270
60. Avdelidis, N.P., Moropoulou, A., Delegou, E.T., “Applications of thermography in the

- assessment of masonry airport pavements and composite materials”, *INSIGHT, J. of the British Institute of non-destructive testing*, 45 [12] (2003) pp. 836-841
61. Moropoulou, A., Cakmak, A., Labropoulos, K.C., Van Grieken, R., Torfs, K., “Accelerated microstructural evolution of a calcium-silicate-hydrate (C-S-H) phase in pozzolanic pastes using fine siliceous sources: comparison with historic pozzolanic mortars”, *Cement and Concrete Research*, 34 (2004) pp. 1-6
 62. Avdelidis, N.P., Moropoulou, A., “Applications of infrared thermography for the investigation of historic structures: a review study”, *Journal of Cultural Heritage*, 5 [1] (2004) pp. 119-127
 63. Avdelidis, N. P., Delegou, E. T., Almond, D. P. and Moropoulou, A., “Surface roughness evaluation of marble by 3D laser profilometry and pulsed thermography” *NDT & E International*, 37 [7] (2004) pp. 571-575
 64. Moropoulou, A., Bakolas, A., Aggelakopoulou, E. “Evaluation of pozzolanic activity of natural and artificial pozzolans by thermal analysis” *Thermochimica Acta*, 420 (2004) pp. 135-140
 65. Avdelidis, N.P. Moropoulou, A., “Detection of moisture in stonework and the effectiveness of conservation methods in historic structures”, *INSIGHT, J. of the British Institute of non-destructive testing*, 46 [6] (2004) 360-363
 66. Moropoulou, A., Bakolas, A., Moundoulas, P., Aggelakopoulou, E., Anagnostopoulou, S., “Strength development and lime reaction in mortars for repairing historic masonries”, *Cement and Concrete Composites*, 27 (2005) pp.289-294
 67. Moropoulou, A., Bakolas, A., Anagnostopoulou, S., “Composite materials in ancient structures”, *Cement and Concrete Composites*, 27 (2005) 295-300
 68. Zervos, S., Moropoulou, A., “Cotton cellulose ageing in sealed vessels. Kinetic model of autocatalytic depolymerization” *Cellulose*, 12 (2005) pp 485-406
 69. Karoglou, M. Moropoulou, A., Giakoumaki, A., and Krokida, M.K., “Capillary rise kinetics of some building materials”, *Journal of Colloid and Interface Science*, 284 [1] (2005) pp. 260-264
 70. Karoglou, M., Moropoulou, A., Maroulis, Z.B., Krokida, M.K., “Drying kinetics of some building materials”, *Drying Technology*, 23 (2005) pp. 305-315
 71. Moropoulou, A., Karoglou, M., Giakoumaki, A., Krokida, M.K., Maroulis, Z.B., Saravacos, G.D., “Drying kinetics of some building materials”, *Brazilian Journal of Chemical Engineering*, 22 [2] (2005) pp. 203-208
 72. Karoglou, M., Moropoulou A., Krokida M.K., Maroulis, Z.B., “Water sorption isotherms of some building materials”, *J. Drying Technology*, 23 [1-2] (2005) pp.289-303
 73. Bakolas, A., Aggelakopoulou, E., Moropoulou, A., Anagnostopoulou, S., “Evaluation of pozzolanic activity and physico-mechanical characteristics in metakaolin-lime pastes”, *Journal of Thermal Analysis and Calorimetry*, 84 (2006) pp. 157-163
 74. Avdelidis, N.P., Moropoulou, A., Stavrakas, D., “Detection and quantification of discontinuities in building materials using transient thermal NDT techniques: Modeling and experimental work”, *Materials Evaluation*, 64 [5] (2006) pp. 489-491
 75. Zervos, S., Moropoulou, A., “Methodology and criteria for the evaluation of paper conservation interventions. A literature review”, *Restaurator*, 27 [4] (2006) pp. 219-274
 76. Karoglou, M., Moropoulou, A., Krokida, M.K., Maroulis, Z.B., “A powerful simulator for

- moisture transfer in buildings”, *Building and Environment*, 42 [2] (2007) pp. 902-912
77. Konstantopoulos, K., Maroulis, V. Z., Karoglou, M., Moropoulou, A., Mujumdar, A.S., “HygroScope: a moisture transfer simulator for buildings”, *Drying Technology*, 25 [6] (2007) pp.1119-1125
78. Moropoulou, A., Delegou, E.T., Vlahakis, V., Karaviti, E., “Digital processing of SEM images for the assessment of evaluation indexes of cleaning interventions on pentelic marble surfaces”, *Journal of Materials Characterization*, 58 [11-12] (2007) pp. 1063-1069
79. Kapsalas, P., Maravelaki-Kalaitzaki, P., Zervakis, M., Delegou, E.T., Moropoulou, A., “Optical inspection for quantification of decay on stone surfaces”, *J. NDT&E International*, 40 (2007) pp. 2-11
80. Xydis G., Koroneos C. and Moropoulou A., “Energy and Exergy Utilization in the Greek Building Sector”, *International Journal of Energy Technology and Policy*, 6 (5-6) (2008) pp. 474-494
81. Delegou, E.T., Avdelidis, N.P., Karaviti, E., Moropoulou, A., “NDT&E techniques and SEM-EDS for the assessment of cleaning intervention on pentelic marble surfaces”, *J. X-Ray Spectrometry*, 37 (2008) pp. 435-443
82. Kapsalas, P., Maravelaki-Kalaitzaki, P., Zervakis, M., Delegou, E.T., Moropoulou, A., “A morphological fusion algorithm for optical detection and quantification of decay patterns on stone surfaces”, *Construction and Building Materials*, 22 (2008) pp. 228-238
83. Bakolas A., Aggekakopoulou E., Moropoulou A., “Evaluation of pozzolanic activity and physico-mechanical characteristics in ceramic powder-lime pastes”, *J. Thermal Analysis & Calorimetry*, 92 [1] (2008), pp. 345-351
84. Moropoulou, A., Polikreti, “Principal component analysis in monument conservation: Three application examples”, *Journal of Cultural Heritage*, 10 (2009) pp. 73-81
85. Katsioti, M., Mauridou, O., Moropoulou, A., Aggelakopoulou, E., Tsakiridis, P.E., Agatzini-Leonardou, S., Oustadakis, P., “Utilization of jarosite/alunite residue for mortars restoration production”, *Materials and Structures*, 43 (2010) 167-177