

ANASTASIA GIAKOUMAKI

PUBLICATIONS

1. M. Karoglou, A. Moropoulou, A. *Giakoumaki*, M. K. Krokida "Capillary rise kinetics of some building materials", *Journal of Colloid and Interface Science*, Vol. 284, Issue 1, 2005, pp. 260-264
2. A. Moropoulou, M. Karoglou, A. *Giakoumaki*, M. K. Krokida, Z. B. Maroulis, G. D. Saravacos, "Drying kinetics of some building materials" *Brazilian Journal of Chemical Engineering*, Vol. 22, No. 02, pp. 203-205, 2005
3. P. Pouli, K. Melessanaki, A. *Giakoumaki*, V. Argyropoulos, D. Anglos "Measuring the thickness of protective coatings applied on historic metal objects using nanosecond and femtosecond LIBS depth profiling", *Spectrochimica Acta Part B* 60, pp. 1163-1171, 2005
4. C. Vazquez-Calvo, A. *Giakoumaki*, D. Anglos, M. Alvarez de Buergo, R. Fort, Classification of patinas found on surfaces of historical buildings by means of Laser-Induced Breakdown Spectroscopy, *Proceedings in LACONA VI*, Vienna, Austria, 21-25 September 2005
5. A. *Giakoumaki*, I. Osticioli, D. Anglos, "Spectroscopic analysis using a hybrid LIBS – Raman system", *Applied Physics A* 83, pp. 537-541, 2006
6. A. *Giakoumaki*, I. Osticioli, D. Anglos, Spectroscopic analysis using a hybrid LIBS-Raman system, *Heritage, Weathering and Conservation*, Vols. 1 and 2, pp. 633-637, *International Conference on Heritage, Weathering and Conservation*, Madrid, Spain, June 21-24, 2006
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10. A. Erdem, A. Cilingiroglu, A. *Giakoumaki*, M. Castanys, E. Cartsonaki, D. Anglos, C. Fotakis, Characterization of Iron Age pottery from Eastern Turkey by laser induced breakdown spectroscopy (LIBS), *Journal of Archaeological Science* 35, pp. 2486-94, 2008
11. J. Goujon, A. *Giakoumaki*, V. Piñon, O. Musset, D. Anglos, E. Georgiou, J.P. Boquillon, A compact and portable Laser Induced Breakdown Spectroscopy instrument for single and double pulse applications, *Spectrochimica Acta B* 63, pp. 1091-1096, 2008

12. J. Goujon, O. Musset, A. Giakoumaki, V. Pinon, D. Anglos, E. Georgiou, A new compact laser source for portable LIBS applications, Solid state lasers XVII: Technology and devices, Proceedings of the society of photo-optical instrumentation engineers (SPIE), Vol. 6871, pp. Q8712-Q8712, Conference on Solid State Lasers XVII, San Jose, Canada, January 20-24, 2008
13. A. Elhassan, A. *Giakoumaki*, D. Anglos, M.A. Harith, Semi Quantitative analysis of euro coins via femtosecond LIBS technique, 7th International Conference on Laser Applications - ICLA 2009, AIP Conference Proceedings, Vol. 1172, pp. 81-84, May 17-21, 2009 Cairo, Egypt
14. J.M. Bueno, E.J. Gualda, A. *Giakoumaki*, P. Perez-Merino, S. Marcos, P. Artal, Multiphoton microscopy of ex vivo corneas after collagen cross-linking, Investigative Ophthalmology and Visual Science Vol. 52, pp.5325-5331
15. J.M. Bueno, A. *Giakoumaki*, E.J. Gualda, F. Schaeffel, P. Artal, Analysis of the chicken retina with an adaptive optics multiphoton microscope, Biomedical Optics Express Vol. 2, pp. 1637–1648, 2011
16. A. Arafat, M. Naes, V. Kantarelou, N. Haddad, A. *Giakoumaki*, V. Argyropoulos, D. Anglos and A. G. Karydas, Combined in-situ micro-XRF, LIBS and SEM-EDX analysis of base metal and corrosion products for Islamic copper alloyed artefacts from Umm Qais Museum, Jordan, Journal of Cultural Heritage Vol.14, 261-269, 2013
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24. 4D Arte rupestre. Monografías del Centro de Estudios de Prehistoria y Arte Rupestre, Book, J. F. Ruiz, M. Sebastian Lopez, E. Quesada, J. M. Pereira-Uzal, S. Fernandez, A. Pitarch, M. Maguregui, A. *Giakoumaki*, I. Martinez, J. M. Madariaga, J. C. Lorente, A. Dolera, January 2016, Edition: 1, Publisher: Dirección General de Bienes Culturales Servicio de Patrimonio Histórico, ISBN: 978-84-7564-644-2
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PRESENTATIONS IN SCIENTIFIC CONFERENCES

1. 3rd Greek Conference of Chemical Engineering, Athens (31 May- 2 June 2001)
2. D. Anglos, J. D. Muhly, S. C. Ferrence, K. Melessanaki, A. *Giakoumaki*, S. Chlouveraki and P. P. Betancourt, LIBS Analysis of Metalwork from the Hagios Charalambos Cave, International Symposium on Aegean Metallurgy in Bronze Age, Rethymno, Greece (19-21 November 2004)
3. A. Moropoulou, M. Karoglou, A. *Giakoumaki*, M. K. Krokida, Z. B. Maroulis, G. D. Saravacos, “Drying kinetics of some building materials”, 14th International Drying Symposium - IDS 2004 Sao Paulo, Brazil (22 - 25 August 2004)
4. P. Pouli, K. Melessanaki, A. *Giakoumaki*, V. Argyropoulos, D. Anglos "Measuring the thickness of protective coatings applied on historic metal objects using LIBS", Poster presentation P-76, 3rd International Conference on Laser Induced Plasma Spectroscopy and Applications - LIBS 2004 Malaga, Spain (28 September - 1 October 2004)
5. A. *Giakoumaki*, I. Osticioli, D. Anglos, “Spectroscopic analysis using a hybrid LIBS – Raman system”, Oral presentation in the “European Materials Research Society – Spring Meeting EMRS 2005” Strasbourg, France (31 May – 3 June 2005)
6. A. *Giakoumaki*, I. Osticioli, D. Anglos, “Spectroscopic analysis using a hybrid LIBS – Raman system”, Poster presentation P-11 in the “3rd International Conference on the application of Raman in Art and Archaeology” Paris, France (31 August – 3 September 2005)
7. A. *Giakoumaki*, I. Osticioli, D. Anglos, “Spectroscopic analysis using a hybrid LIBS – Raman system”, Poster presentation P-14 in the “Euro-Mediterranean Symposium on

Laser-Induced Breakdown Spectroscopy -EMS-LIBS 2005” Aachen, Germany (6 – 9 September 2005)

8. A. *Giakoumaki*, P. Pouli, K. Melessanaki, V. Argyropoulos, D. Anglos, “Measuring the thickness of protective coatings applied on historic metal objects using femtosecond and nanosecond laser induced breakdown spectroscopy depth profiling” Poster presentation in the “Lasers in the conservation of artworks - LACONA VI” Vienna, Austria (21 – 25 September 2005)
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12. A. Elhassan, A. *Giakoumaki*, D. Anglos, G. M. Ingo, L. Robbiola, M. A. Harith, “Nanosecond and femtosecond LIBS analysis of simulated artefacts bronze alloys”, Poster presentation in the “Laser-induced breakdown spectroscopy 2006” Montreal, Canada (5-8 September 2006)
13. A. *Giakoumaki*, V. Kantarelou, Ch. Zarkadas, M. Giannoulaki, A. G. Karydas D. Anglos, V. Argyropoulos, Combined *in-situ* use of LIBS and micro-XRF spectrometers for the characterization of archaeological metal objects, Poster presentation in “European Materials Research Society – Spring Meeting EMRS 2007” Strasbourg, France (28 May – 1 June 2007)
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20. A. *Giakoumaki*, V. Kantarelou, Ch. Zarkadas, M. Giannoulaki, A. G. Karydas, D. Anglos, V. Argyropoulos, Combined *in-situ* use of LIBS and micro-XRF spectrometers for the characterization of archaeological metal objects, Oral presentation in Lasers in the conservation of artworks – LACONA VII, Madrid, Spain (17-21 September 2007)
21. V. Kantarelou, Ch. Zarkadas, A. *Giakoumaki*, M. Giannoulaki, A. G. Karydas, D. Anglos, V. Argyropoulos, A novel approach on the combined in-situ application of LIBS and μ -XRF spectrometers for the characterization of copper alloy corrosion products, Oral presentation in Metal 2007, Amsterdam, The Netherlands (17-21 September 2007)
22. A. *Giakoumaki*, D. Anglos, V. Kantarelou, A.G. Karydas, D. Sokaras, Ch. Zarkadas, M. Giannoulaki, V. Argyropoulos, Characterization of archaeological copper alloy artefacts by combined Micro-XRF and LIBS portable spectrometers, Poster presentation in Non-destructive and Microanalytical Techniques in Art and Cultural Heritage Research TECHNART 7, Lisbon, Portugal (25- 28 April 2007)
23. A. *Giakoumaki*, A. Doridot, L. Robbiola, D. Anglos, A survey over the capabilities of LIBS in the quantification of archaeological copper alloys, Poster presentation in “Laser-Induced Breakdown Spectroscopy 2008” Berlin, Germany (22-26 September 2008)
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32. M. Maguregui, A. *Giakoumaki*, U. Knuutinen, K. Castro, I. Martínez-Arkarazo, J. M. Madariaga, Portable non-destructive analytical techniques to diagnose the impacts of modern urban atmospheres and other environment factors on archaeological sites: The case of Insula IX,3 (Pompeii, Italy), Poster presentation in 2nd International Congress Chemistry for Cultural Heritage, Istanbul, Turkey, 9-12 July 2012
33. E. Calparsoro, A. *Giakoumaki*, M. Maguregui, N. Prieto-Taboada J.M. Madariaga, Combined use of SEM-EDS, micro XRF and Raman spectroscopies to evaluate the composition of black and salt crusts on building stone surfaces formed by natural and anthropogenic sources, Poster presentation in 2nd International Congress Chemistry for Cultural Heritage, Istanbul, Turkey, 9-12 July 2012
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36. A.I. Whitehouse, C.P. Evans, V. Piñon, A. *Giakoumaki*, J.A.T. Pugh, An overview of proven applications of Laser-Induced Breakdown Spectroscopy (LIBS) within the nuclear power and reprocessing industries, Invited Oral presentation in Euro-Mediterranean Symposium in LIBS (EMS-LIBS) 2015, Linz, Austria, 14-18 September 2015
37. A. *Giakoumaki*, V. Piñon, C.P. Evans, A.I. Whitehouse, Quantitative measurements of liquid samples by LIBS, Oral presentation in Laser-Induced Breakdown Spectroscopy LIBS 2016, Chamonix, France, 12-16 September 2016
38. V. Piñon, A. *Giakoumaki*, C.P. Evans, A.I. Whitehouse, Comparative tests of an Echelle Multiplex Unit (EMU) spectrometer with a multi-channel spectrometer using a modular

LIBS system, Poster presentation in Laser-Induced Breakdown Spectroscopy LIBS 2016, Chamonix, France, 12-16 September 2016

39. S. Woodbury, T. Brooks, A. Whitehouse, P. Evans, R. Robinson, V. Pinon, A. *Giakoumaki*, In-cave LIBS in Windscale laboratory, Poster presentation in HOTLAB 2017- Annual Meeting on Hot Laboratories and Remote Handling, Mito, Japan, 17-22 September 2017