

Publications list

Name: DEMETRIOS ANGLOS

Publications in refereed journals and proceedings of International Conferences:

A. Until 2004

INVITED

1. "Laser Spectroscopic and Optical Imaging Techniques in Chemical and Structural Diagnostics of Painted Artwork" D. Anglos, C. Balas, C. Fotakis, *American Laboratory* **31**, 60-67 (1999)
2. "Laser-Induced Breakdown Spectroscopy in Art and Archaeology" D. Anglos Focal Point article in *Appl. Spectrosc.* **55**, 186A-205A (2001)

REGULAR (PEER REVIEWED)

1. "Long-Range Electronic Interactions in Peptides: The Remote Heavy Atom Effect"; G. Basu, M. Kubasik, D. Anglos, B. Secor and A. Kuki; *J. Am. Chem. Soc.* **112**, 9410-11 (1990); doi: [10.1021/ja00181a062](https://doi.org/10.1021/ja00181a062)
2. "Friedel-Crafts Approach to Electron-Deficient Cyclic α -Amino Acids"; S. Kotha, D. Anglos and A. Kuki; *Tetrahedron Lett.* **33**, 1569-72 (1992).
3. "Fluorescence Quenching in a Strongly Helical Peptide Series: The Role of Non-Covalent Pathways in Modulating Electronic Interactions"; G. Basu, D. Anglos and A. Kuki; *Biochemistry* **32**, 3067-76 (1993); doi: [10.1021/bi00063a018](https://doi.org/10.1021/bi00063a018)
4. "Spin Forbidden Excitation Transfer and Heavy-Atom Induced Intersystem Crossing in Linear and Cyclic Peptides"; G. Basu, M. Kubasik, D. Anglos and A. Kuki; *J. Phys. Chem.* **97**, 3956-67 (1993); doi: [10.1021/j100118a006](https://doi.org/10.1021/j100118a006)
5. "Photoinduced Electron Transfer and Long-Lived Charge Separation in Rigid Peptide Architectures"; D. Anglos, V. Bindra and A. Kuki; *J. Chem. Soc., Chem. Commun.* 213-5 (1994); doi: 10.1039/C39940000213
6. "Laser Induced Fluorescence in Artwork Diagnostics. An Application in Pigment Analysis" D. Anglos, M. Solomidou, I. Zergioti, V. Zafiropulos, T.G. Papazoglou and C. Fotakis, *Appl. Spectrosc.* **50**, 1331-4 (1996).
7. "Laser Diagnostics of Painted Artworks : Laser Induced Breakdown Spectroscopy in Pigment Identification" D. Anglos, S. Couris and C. Fotakis, *Appl. Spectrosc.* **51**, 1025-30 (1997).
8. "Synthesis of a Novel α -Amino Acid with Quinoxaline Side Chain: 7-Amino-6,7-dihydro-8H-cyclopenta[g]quinoxaline-7-carboxylic Acid" S. Kotha, E. Brahmachary, A. Kuki, K. Lang, D. Anglos, B. Singaram, *Tetrahedron Lett.* **38**, 9031-4 (1997).
9. "Excimer Laser Restoration of Painted Artworks: Procedures, Mechanisms and Effects" S. Georgiou, V. Zafiropulos, D. Anglos, C. Balas, V. Tornari and C. Fotakis, *Appl. Surf. Sci.* **127-129**, 738-45 (1998); doi:[10.1016/S0169-4332\(97\)00734-4](https://doi.org/10.1016/S0169-4332(97)00734-4)
10. "Corneal Hydration Monitoring by means of Laser-Induced Breakdown Spectroscopy" I. G. Pallikaris, H. S. Ginis, G. A. Kounis, D. Anglos, T. G. Papazoglou, L.P. Naoumidis, *J. Refr. Surgery* **14**, 655-60 (1998).

11. "Photochemical Effects in the UV Laser Ablation of Polymers: Implications for Laser Restoration of Artworks"; M. Lassithiotaki, A. Athanassiou, D. Anglos, S. Georgiou and C. Fotakis; *Appl. Phys. A* **69** (rapid communication), 363-7 (1999); doi: 10.1007/s003390051015
12. "Investigation of the laserlike behavior of polymeric scattering gain media under subpicosecond laser excitation" G. Zacharakis, G. Heliotis, G. Philippidis, D. Anglos and T. G. Papazoglou, *Appl. Optics* **38**, 6087-92 (1999).
13. "Photochemical Modifications in the UV Laser Ablation of Halonaphthalene Doped PMMA"; A. Athanassiou, E. Andreou, D. Anglos, S. Georgiou and C. Fotakis; *Appl. Phys. A*. [Suppl.] S285-9 (1999).
14. "Pigment Identification. A Dual Analytical Approach employing Laser Induced Breakdown Spectroscopy (LIBS) and Raman Microscopy. "L. Burgio, R. J. H. Clark, T. Stratoudaki, D. Anglos, M. Doulgeridis, *Appl. Spectrosc.* 463-9 (2000).
15. "A Comparative Study of the Photochemical Modifications Effected in the UV Laser Ablation of Doped Polymer Substrates"; A. Athanassiou, M. Lassithiotaki, D. Anglos, S. Georgiou and C. Fotakis; *Appl. Surf. Sci.* **154/155**, 89-94 (2000); doi:10.1016/S0169-4332(99)00380-3
16. "Analysis of Pigments in Polychromes by use of Laser Induced Breakdown Spectroscopy and Raman Microscopy. " M. Castillejo, M. Martin, D. Silva, T. Stratoudaki, D. Anglos, L. Burgio, R. J. H. Clark, *J. Molec. Structure.* **550-551**, 191-8 (2000).
17. "Pigment identification in paintings employing Laser Induced Breakdown Spectroscopy (LIBS) and Raman microscopy". L. Burgio, K. Melessanaki, M. Doulgeridis, R. J. H. Clark, D. Anglos, *Spectrochimica Acta Part B* **56**, 905-913 (2001).
18. "Compositional characterization of encrustation on marble with laser induced breakdown spectroscopy". P. Maravelaki-Kalaitzaki, D. Anglos, V. Kilikoglou, V. Zafirooulos, *Spectrochimica Acta Part B* **56**, 887-903 (2001).
19. "Femtosecond and picosecond ultraviolet laser filaments in air: experiments and simulations "; S. Tzortzakis, B. Lamouroux, A. Chiron, S. D. Moustazis, D. Anglos, M. Franco, B. Prade, A. Mysyrowicz, *Optics Communications* **197**, 131-143 (2001).
20. "Laser Induced Breakdown Spectroscopy (LIBS) and Hyper-spectral Imaging Analysis of Pigments on an Illuminated Manuscript. K. Melessanaki, V. Papadakis, C. Balas, D. Anglos, *Spectrochimica Acta Part B*, **56**, 2337-2346 (2001).
21. "A comparative examination of photoproducts formed in the 248nm and 193nm ablation of doped PMMA"; A. Athanassiou, E. Andreou, D. Fragouli, D. Anglos, S. Georgiou and C. Fotakis; *J. Photochem. Photobiol.*, **145**, 229-236 (2001).
22. "Laser and material parameter dependence of the chemical modifications in the UV laser processing of model polymeric solids"; E. Andreou, A. Athanassiou, D. Fragouli, D. Anglos, S. Georgiou, *Laser Chemistry* **20**, 1-21 (2002).
23. "The application of LIBS for the analysis of archaeological ceramic and metal artefacts", K. Melessanaki, M. P. Mateo, S. C. Ferrence, P. P. Betancourt, D. Anglos, *Appl. Surf. Sci.* **197-198**, 156-163 (2002); doi:10.1016/S0169-4332(02)00459-2
24. "Examination of chemical and structural modifications in the UV ablation of polymers" A. Athanassiou, E. Andreou, A. Bonarou, V. Tornari, D. Anglos, S. Georgiou, C. Fotakis, *Appl. Surf. Sci.* **197-198**, 757-763 (2002); doi:10.1016/S0169-4332(02)00406-3
25. "Plume emissions accompanying 248 nm laser ablation of graphite in vacuum: effects of pulse duration " F. Claeysens, M.N.R. Ashfold, E. Sofoulakis, C.G. Ristoscu, D. Anglos, C. Fotakis, *J. Appl. Physics* **91**, 6162-6172 (2002).
26. "Laser Induced Breakdown Spectroscopy for the analysis of 150-year old daguerreotypes", D. Anglos, K. Melessanaki, V. Zafirooulos, M. J. Gresalfi, J. C. Miller, *Appl. Spectrosc.* **56**, 423-432 (2002).

27. "Random laser action in organic-inorganic nanocomposites", D. Anglos, A. Stassinopoulos, R. N. Das, G. Zacharakis, M. Psyllaki, R. Jakubiak, R. A. Vaia, E. P. Giannelis, S. H. Anastasiadis, *J. Opt. Soc. Amer. B* **21**, 208-213 (2004).
28. "In situ interferometric depth and topography monitoring during LIBS elemental profiling of multi-layer structures" D. G. Papazoglou, V. Papadakis, D. Anglos, *J. Anal. At. Spectrom.* **19**, 483-488 (2004).
29. "Expansion velocities of 0.5 ps KrF excimer laser induced plasma by Doppler-shift analysis of pump and probe measurements", Z. Toth, B. Hopp, J. Klebnicki, N. Kresz, Z. Bor, D. Anglos, C. Kalpouzos, C. Fotakis, *Appl. Phys A* **79**, 1287-90 (2004).
30. "Product Formation in the Laser Ablation of Doped PMMA at 248 nm" G. Bounos, A. Athanassiou, D. Anglos, S. Georgiou, C. Fotakis, *J. Phys. Chem.B* **104**, 7052-60 (2004).
31. "Study of ageing in oil-paintings by 1D and 2D NMR spectroscopy" A. Spyros, D. Anglos, *Anal. Chem.* **76**, 4929-36, (2004).

- *Proceedings*

1. "Laser-Induced Breakdown Spectroscopy (LIBS), Applications in Environmental Issues" S. Couris, A. Hatzia Apostolou, D. Anglos, A. Mavromanolakis and C. Fotakis in Proceedings of International Conference on Laser methods for biological and environmental applications (Heraklion 20-24 May 1996) *SPIE* **2965**, 83-87, (1996).
2. "Artwork Diagnostics. Laser Induced Breakdown Spectroscopy (LIBS) and Laser Induced Fluorescence (LIF)" D. Anglos, S. Couris, A. Mavromanolakis, I. Zergioti, M. Solomidou, W.-Q. Liu, T. G. Papazoglou, V. Zafiropoulos, C. Fotakis, M. Doulgeridis, A. Fostiridou; pp. 113-118 in *Restauratorenblätter Sonderband Lacona I (Proceedings)*, W. Kautek, E. König, Eds. Verlag Mayer and Comp., Wien (1997).
3. "Use of KrF Excimer Laser for Cleaning Fragile and Problematic Paint Surfaces: Preliminary Test Results" W. A. Real, I. Zergioti, Y. Spetsidou, D. Anglos, *Preprints, ICOM Committee for Conservation, 11th Triennial Meeting, Edinburgh, UK* (1996).
4. "Laser Technology in Art Conservation" C. Fotakis, D. Anglos, S. Couris, S. Georgiou, V. Zafiropoulos, I. Zergioti in *Resonance Ionization Spectroscopy 1996 (Proceedings)*, N. Winograd, J. E. Parks, Eds. pp.183-188, American Institute of Physics Press, Woodbury, New York, USA (1997).
5. "Laser Technology in Art Conservation", C. Fotakis, D. Anglos, C. Balas, S. Georgiou, N. A. Vainos, I. Zergioti, V. Zafiropoulos, in *OSA Trends in Optics and Photonics Series on Lasers and Optics for Manufacturing*, **9**, 99, 1997, A. C. Tam, ed. Optical Society of America, Washington, DC, USA (1997).
6. "Lasers in the conservation of painted artworks", C. Fotakis, V. Zafiropoulos, V. Tornari, D. Anglos, C. Balas, S. Georgiou and I. Zergioti, in *Second International Conference on New Laser Technologies and Applications*, P. di Lazzaro, Ed. SPIE. **3423**, 292-296, (1998).
7. "Lasers in the Conservation of Painted Artworks", C. Fotakis, V. Zafiropoulos, D. Anglos, C. Balas, D. Fandidou, S. Georgiou, V. Tornari, I. Zergioti and M. Doulgeridis, in *Restauratorenblätter, International Institute for Conservator of Historic and Artistic Works, Laconall (Proceedings)* Eds. E. König, W. Kautek, Verlag Mayer & Comp., Vienna (1997).
8. "Laser Induced Breakdown Spectroscopy in the Analysis of Pigments in Painted Artworks. A database of pigments and spectra", T. Stratoudaki, D. Xenakis, V. Zafiropoulos and D. Anglos, pp. 163-9 in Proceedings of the 5th International Conference on Optics within the Life Sciences-OWLS-V, Eds. C. Fotakis, T.G. Papazoglou, C. Kalpouzos Springer-Verlag, Berlin (2000).
9. "Laser Induced Breakdown Spectroscopy and Raman Microscopy for Analysis of Pigments in Polychromes" M. Castillejo, M. Martin, D. Silva, T. Stratoudaki, D. Anglos, L. Burgio, R. J. H. Clark, *Journal of Cultural Heritage*, **1**, S297-302 (2000).

10. "Deposition, Evaluation and Control of 4H and 6H SiC Epitaxial Layers for Device Applications ", E. Neyret, L. Di Cioccio, J. M. Bluet, J. Pernot, P. Vicente, D. Anglos, M. Lagadas and T. Billon, *Materials Science and Engineering B* **80**, 332-336 (2001).
11. "Fundamental aspects in the laser restoration of painted artworks", D. Anglos, A. Athanassiou, L. Antonucci, E. Andreou, A. Bonarou, S. Georgiou, V. Tornari, V. Zafirooulos, C. Fotakis, Proceedings of the Chemical and Gas Flow Lasers-CGL 2000 conference, *SPIE* **4184**, 545-50 (2001).
12. "Fundamental aspects of photochemical effects following UV laser ablation", A. Athanassiou, D. Fragouli, E. Andreou, D. Anglos, S. Georgiou, C. Fotakis; Proceedings of the 6th Conference on Optics, Romopto 2000, *SPIE* **4430**, 147-52 (2001).
13. "Second harmonic generation and random lasing after two-photon excitation" G. Zacharakis, D. Anglos, T. G. Papazoglou, Proceedings of Photon Migration, Optical Coherence Tomography, and Microscopy, S. Andersson-Engels, M F. Kaschke, Eds. *SPIE* **4431**, 240-248 (2001).
14. "Random Lasers Based on Organic-Inorganic Hybrids " E. P. Giannelis, A. Stasinopoulos, M. Psyllaki, G. Zacharakis, R. Das, D. Anglos, S. H. Anastasiadis and R.A. Vaia, in *"Hybrid Organic-Inorganic Materials"*, R. M. Laine, S. Yang, C. Sanchez, and C. J. Brinker, Eds., Materials Research Society Symposium Proceedings, **726**, p. Q2.2.1-Q2.1.9, Pittsburgh, PA, USA (2002).
15. "Modeling of chemical and mechanical aspects in laser restoration of artworks" C. Fotakis, A. Athanassiou, E. Andreou, V. Tornari, A. Bonarou, L. Antonucci, D. Anglos, S. Georgiou, V. Zafirooulos, 2nd International Symposium on Laser Precision Microfabrication, I. Miyamoto, Y. F. Lu, K. Sugioka, J. J. Dubowski, Eds. *SPIE* **4426**, 296-301 (2002).
16. "Chemical and structural modifications in the UV ablation of polymers" S. Georgiou, J. Bounos, A. Athanassiou, D. Anglos, V. Tornari, C. Fotakis High Power Laser Ablation IV, C. R. Phipps Ed. *SPIE* **4760**, 274-280 (2002).
17. "Random Laser Action in Organic/Inorganic Nanohybrids" S. H. Anastasiadis, A. Stassinopoulos, M. Psyllaki, K. Piperaki, G. Zacharakis, D. Anglos, R. Das, and E. P. Giannelis, 4th Panhellenic Chemical Engineering Scientific Conference Proceedings, p. 249 (2003).
18. "Short free running Nd:YAG laser to clean different encrustations on Pentelic marble: procedure and evaluation of the effects" P. Maravelaki-Kalaitzaki, V. Zafirooulos, P. Pouli, D. Anglos, C. Balas, R. Salimbeni, S. Siano, R. Pini, *Journal of Cultural Heritage*, **4**, 77s-82s (2003).
19. "Laser characterization and cleaning of 19th century daguerreotypes II" V. V. Golovlev, M. J. Gresalfi, J. C. Miller, D. Anglos, K. Melessanaki, V. Zafirooulos, G. Romer, P. Messier, *Journal of Cultural Heritage*, **4**, 134s-139s (2003).
20. "Application of LIBS in the analysis of archaeological objects" K. Melessanaki, S. C. Ferrence, P. P. Betancourt, D. Anglos Proceedings of the 19th Congress of the International Commission for Optics: Optics for the Quality of Life, G. C. Righini, A. Consortini Eds. *SPIE* **4829**, 79-80 (2003).

B. 2005-2012

- *Papers*

INVITED

1. "Lasers in the analysis of cultural heritage materials " D. Anglos, S. Georgiou, C. Fotakis, *Journal of Nano Research* **8**, 47-60 (2009)
2. "Laser spectroscopies for elemental and molecular analysis in art and archaeology" A. Nevin, G. Spoto, D. Anglos, *Appl. Phys. A* **106**, 339-361 (2012); doi: 10.1007/s00339-011-6699-z

REGULAR (PEER REVIEWED)

1. "Random lasing in surface modified films of zinc oxide nanoparticles", A. Stassinopoulos, R. N. Das, E. P. Giannelis, S. H. Anastasiadis, D. Anglos, *Appl. Surf. Sci.* **247**, 18-24 (2005); [doi:10.1016/j.apsusc.2005.01.055](https://doi.org/10.1016/j.apsusc.2005.01.055)
2. "Measuring the thickness of protective coatings on historic metal objects using nanosecond and femtosecond LIBS depth profiling" P. Pouli, K. Melessanaki, A. Giakoumaki, V. Argyropoulos, D. Anglos, *Spectrochimica Acta Part B* **60**, 1163-71 (2005).
3. "Dynamics of confined plumes during the short and ultra-short pulsed laser ablation of graphite" S. J. Henley, J. D. Carey, S. R. P. Silva, G. M. Fuge, M. N. R. Ashfold, D. Anglos, *Phys. Rev. B.* **72** 205413:1-13 (2005).
4. "Growth of ZnO thin films by ultraviolet pulsed-laser ablation: Study of plume dynamics" A. Klini, A. Manousaki, D. Anglos, C. Fotakis, *J. Appl. Physics* **98**, 123301 (2005).
5. "Dynamics of dopant product formation in the nanosecond irradiation of doped PMMA at 248 and 193 nm: Temporal evolution of temperature and viscosity" G. Bounos, A. Athanassiou, D. Anglos and S. Georgiou, *Chem. Phys. Lett.* **418**, 317-322 (2006)
6. "Functionalized ZnO nanoparticles with liquid-like behavior and their photoluminescence properties " A. B. Bourlinos, A. Stassinopoulos, D. Anglos, R. Herrera, S. H. Anastasiadis, D. Petridis and E. P. Giannelis, *Small* **2**, 513-516 (2006).
7. "Spectroscopic analysis using a hybrid LIBS-Raman system" A. Giakoumaki, I. Osticioli, D. Anglos; *Appl. Phys. A* **83**, 537-541 (2006).
8. "Studies of organic paint binders by NMR spectroscopy" A. Spyros, D. Anglos; *Appl. Phys. A* **83**, 705-708 (2006).
9. "Femtosecond laser filaments enable remote LIBS analysis with potential applications in the monitoring of sculpture and monuments" S. Tzortzakos, D. Gray, D. Anglos *Optics Letters* **31**, 1139-1141 (2006).
10. "Analysis of Protein-based Binding Media found in Paintings using Laser Induced Fluorescence Spectroscopy " A. Nevin, S. Cather, D. Anglos, C. Fotakis, *Analytica Chimica Acta* **573**, 341-346 (2006).
11. "A new non-destructive approach to the pigment analysis of Bronze Age Aegean and Eastern Mediterranean painted plaster by means of LIBS" A. Brysbaert, K. Melessanaki, D. Anglos, *Journal of Archaeological Science* **33**, 1095-1104 (2006).
12. "Femtosecond pulse shaping for phase and morphology control in PLD: Synthesis of cubic SiC" C. Ristoscu, G. Socol, C. Ghica, I. N. Mihailescu, D. Gray, A. Klini, A. Manousaki, D. Anglos, C. Fotakis, *Appl. Surf. Sci.* **252**, 4857-4862 (2006); [doi:10.1016/j.apsusc.2005.07.099](https://doi.org/10.1016/j.apsusc.2005.07.099)
13. "Single shot temporal coherence measurements of random lasing media " V. Papadakis, A. Stassinopoulos, D. Anglos, S. H. Anastasiadis, E. P. Giannelis, D. G. Papazoglou, *J. Opt. Soc. Amer. B* **24**, 31-36 (2007).
14. "Laser-Induced Breakdown Spectroscopy (LIBS) in Archaeological Science : Applications and Prospects " A. Giakoumaki, K. Melessanaki, D. Anglos, *Analytical Bioanalytical Chemistry* **387**, 749-760 (2007); [doi: 10.1007/s00216-006-0908-1](https://doi.org/10.1007/s00216-006-0908-1).
15. "Raman Spectra of Proteinaceous Materials Used in Paintings: A Multivariate Analytical Approach for Classification and Identification" A. Nevin, I. Osticioli, D. Anglos, A. Burnstock, S. Cather, E. Castellucci, *Analytical Chemistry* **79**, 6143-6151 (2007); [doi:10.1021/ac070373j](https://doi.org/10.1021/ac070373j)
16. "Time-resolved fluorescence spectroscopy and imaging of proteinaceous binders used in paintings " A. Nevin, D. Comelli, G. Valentini, D. Anglos, A. Burnstock, S. Cather, R. Cubeddu, *Analytical Bioanalytical Chemistry* **388**, 1897-1905 (2007); [doi: 10.1007/s00216-007-1402-0](https://doi.org/10.1007/s00216-007-1402-0)
17. "Photoluminescence of hexagonal boron nitride: Effect of surface oxidation under UV-laser irradiation" L. Muser, D. Anglos, J.-P. Petit, J.-P. Michel, A.V. Kanaev, *Journal of Luminescence* **127**, 595-600 (2007).
18. "Micro-Raman and Fluorescence spectroscopy for the assessment of the effects of the exposure to light on films of egg white and egg yolk " I. Osticioli, A. Nevin, D. Anglos, A. Burnstock, S. Cather, M. Becucci, C. Fotakis, E. Castellucci, *J. Raman Spectrosc.* **39**, 307-313 (2008); [doi: 10.1002/jrs.1915](https://doi.org/10.1002/jrs.1915)

19. "Surface Functionalized Carbogenic Quantum Dots" A. B. Bourlinos, A. Stassinopoulos, D. Anglos, R. Zboril, M. Karakassides, E. P. Giannelis, *Small* **4**, 455-458 (2008); doi: 10.1002/sml.200700578
20. "Nanosecond and Femtosecond LIBS Analysis of Bronze Alloys" A. Elhassan, A. Giakoumaki, D. Anglos, G.M. Ingo, L. Robbiola, M. A. Harith, *Spectrochimica Acta Part B* **63**, 504-511 (2008).
21. "The analysis of protein-based media used in paintings using synchronous fluorescence spectroscopy combined with multivariate statistical analysis" A. Nevin, S. Cather, A. Burnstock, D. Anglos, *Appl. Spectrosc* **62**, 481-489 (2008).
22. "The influence of visible light and inorganic pigments on Fluorescence Excitation Emission spectra of egg, casein and collagen-based painting media" A. Nevin, D. Anglos, S. Cather, A. Burnstock, *Appl. Physics A* **92**, 69-76 (2008); doi: 10.1007/s00339-008-4460-z
23. "The analysis of naturally and artificially-aged protein-based binding media using Raman spectroscopy combined with Principal Component Analysis " A. Nevin, I. Osticioli, D. Anglos, A. Burnstock, S. Cather, E. Castellucci, *J. Raman Spectrosc.* **39**, 993-1000 (2008); doi: 10.1002/jrs.1951
24. "Photons in the service of our past: Lasers in the preservation of cultural heritage" S. Georgiou, D. Anglos, C. Fotakis, *Contemporary Physics* **49**, 1-27 (2008)
25. "Longitudinal coherence of organic-based microcavity lasers" A. Camposeo, L. Persano, P. Del Carro, D. G. Papazoglou, A. Stassinopoulos, D. Anglos, R. Cingolani, D. Pisignano, *Optics Express* **16**, 10384-89 (2008)
26. "Photoluminescent carbogenic dots", A. B. Bourlinos, A. Stassinopoulos, D. Anglos, R. Zboril, V. Georgakilas, E. P. Giannelis, *Chemistry of Materials*, **20**, 4539-41 (2008)
27. "Characterization of Iron Age Pottery from Eastern Turkey by Laser Induced Breakdown Spectroscopy (LIBS)" A. Erdem, A. Çilingiroğlu, A. Giakoumaki, M. Castanys, E. Kartsonaki, C. Fotakis, D. Anglos, *Journal of Archaeological Science* **35**, 2486-94 (2008)
28. "Reaction of graphite fluoride with NaOH-KOH eutectic" A. B. Bourlinos, V. Georgakilas, R. Zboril, D. Jancik, M. A. Karakassides, A. Stassinopoulos, D. Anglos, E. P. Giannelis, *Journal of Fluorine Chemistry*, **129**, 720-724 (2008); doi:10.1016/j.jfluchem.2008.05.020.
29. "Double pulse LIBS with femtosecond laser pulses" V. Piñon, C. Fotakis, G. Nicolas D. Anglos, *Spectrochimica Acta Part B* **63**, 1006-10 (2008)
30. "Comparison of single and double pulse LIBS measurements with a new compact laser for portable applications" J. Goujon, A. Giakoumaki, V. Piñon, O. Musset, D. Anglos, E. Georgiou, *Spectrochimica Acta Part B* **63**, 1091-96 (2008)
31. "Picosecond laser structuring under high pressures: Observation of boron nitride nanorods", L. Museur, J.-P. Petit, J.-P. Michel, W. Marine, D. Anglos, C. Fotakis, A. V. Kanaev, *J. Appl. Phys.* **104**, 093504 (2008); doi:10.1063/1.3000457.
32. "An Optimization of Parameters for Application of a Laser-Induced Breakdown Spectroscopy Microprobe for the Analysis of Works of Art" I. Osticioli, M. Wolf, D. Anglos, *Appl. Spectrosc.* **62**, 1242-49 (2008)
33. "Effect of experimental conditions on surface hardness measurements of calcified tissues via LIBS" Z.A. Abdel-Salam, Z. Nanjing, D. Anglos, M.A. Harith *Appl. Phys. B* **94**, 141-147 (2009)
34. "Pyrolytic formation and photoluminescence properties of a new layered carbonaceous material with graphite oxide-mimicking characteristics" A.B. Bourlinos, V. Georgakilas, R. Zboril, A. Bakandritsos, A. Stassinopoulos, D. Anglos, E.P. Giannelis *Carbon* **47**, 519-526 (2009)
35. "Mechanisms of the laser plume expansion during the ablation of LiMn_2O_4 " S. Canulescu, E. L. Papadopoulou, D. Anglos, Th. Lippert, C. W. Schneider, A. Wokaun, *J. Appl. Phys.* **105**, 063107 (2009)
36. "Optical emission studies of plasma induced by single and double femtosecond laser pulses" V. Piñon, D. Anglos, *Spectrochimica Acta Part B* **64**, 950-960 (2009)

37. "Random Lasing Action from ZnO-silica Nanohybrids", A. Stassinopoulos, R.N. Das, S.H. Anastasiadis, E.P. Giannelis, and D.Anglos, *J. Opt.* **12** 024006 (2010).
38. "Femtosecond UV laser non-ablative surface structuring of ZnO crystal: impact on exciton photoluminescence" L. Museur, J.-P. Michel, P. Portes, A. Englezis, A. Stassinopoulos, D. Anglos, A. V. Kanaev, *J. Opt. Soc. Amer. B* **27**(3) 531-535 (2010)
39. "Nanosecond and femtosecond ablation of $\text{La}_{0.6}\text{Ca}_{0.4}\text{CoO}_3$: a comparison between plume dynamics and composition/structure of the films" S. Canulescu, E.L. Papadopoulou, D. Anglos, Th. Lippert, M. J. Montenegro, A. Wokaun, M. Döbeli, *Appl. Phys A* **105**, 167-176 (2011); doi: 10.1007/s00339-011-6463-4
40. "The potential use of plume imaging for real-time monitoring of laser ablation cleaning of stonework" A. Khedr, V. Papadakis, P. Pouli, D. Anglos, M. A. Harith, *Appl. Physics B* **105**, 485-492 (2011); doi: 10.1007/s00340-011-4492-5
41. "Surface modification of monocrystalline zinc oxide induced by high-density electronic excitation" L. Museur, A. Manousakil, D. Anglos, A. V. Kanaev, *J. Appl. Physics* **110** 124310 (2011); doi: 10.1063/1.3671006
42. "Studying pigments on painted plaster in Minoan, Roman and Early Byzantine Crete. A multi-analytical technique approach" P. Westlake, P. Siozos, A. Philippidis, Ch. Apostolaki, B. Derham, A. Terlix, V. Perdikatsis, R. Jones, D. Anglos *Analytical Bioanalytical Chemistry*, **402**, 1413-1432 (2012); doi: 10.1007/s00216-011-5281-z
43. "An ethanol vapor detection probe based on a ZnO nanorod coated optical fiber long period grating " M. Konstantaki, A. Klini, D. Anglos, S. Pisadakis *Optics Express*, **20**, 8472-8484 (2012); dx.doi.org/10.1364/OE.20.008472
44. "Effect of ambient conditions on ultraviolet femtosecond pulse laser induced breakdown spectra" M.P. Mateo, V. Piñon, D. Anglos, G. Nicolas, *Spectrochimica Acta Part B* **74-75**, 18-23 (2012); doi: 10.1016/j.sab.2012.06.031

- *Proceedings*

1. "Analysis of archaeological objects with LMNTI, a new transportable LIBS instrument" K. Melessanaki, A. Mastrogiannidou, S. Chlouveraki, S.C. Ferrence, P.P. Betancourt, D.Anglos, 5th International Conference on Lasers in the Conservation of Artworks (LACONA V) Proceedings, Osnabrueck, Germany, (15-18 September 2003) Springer Proceedings in Physics **100**, 443-451. K. Dickmann, C. Fotakis, J. F. Asmus, (Eds.) 2005.
2. "Analysis of proteins found in wall paintings using laser induced fluorescence spectroscopy " A. Nevin, D. Anglos, C. Fotakis, S. Cather in *Heritage Weathering and Conservation* vol. 2, pp. 621-626, Fort, Alvarez de Buergo, Gomez-Heras, Vazquez-Calvo (eds), Taylor and Francis, London (2006).
3. "Spectroscopic analysis using a hybrid LIBS-Raman system" A. Giakoumaki, I. Osticioli, D. Anglos in *Heritage Weathering and Conservation* vol. 2, pp. 633-637, Fort, Alvarez de Buergo, Gomez-Heras, Vazquez-Calvo (eds), Taylor and Francis, London (2006).
4. "Laser Cleaning and Spectroscopy: A Synergistic Approach in the Conservation of a Modern Painting" K. Melessanaki, C. Stringari, C. Fotakis, D. Anglos, *Laser Chemistry*, Article 42709 (1-5) (2006).
5. "Assisted Interpretation of Laser-Induced Fluorescence Spectra of Egg-Based Binding Media Using Total Emission Fluorescence Spectroscopy" A. Nevin, D. Anglos, *Laser Chemistry*, Article 82823 (1-5) (2006).
6. "LIBS as an identification and documentation tool in the conservation process: applications at the W.D.E. Coulson Conservation Laboratory, INSTAP-SCEC" S. Chlouveraki, K. Melessanaki, D. Anglos, in *Strategies for Saving our Cultural Heritage*, Proceedings of the International Conference on Conservation Strategies for Saving Indoors Metallic Collections (CSSIM), Cairo, Egypt (25 February – 1 March 2007), V. Argyropoulos, A. Hein, M. A. Harith (eds) pp.46-52, TEI of Athens 2007.
7. "Evaluating the Effectiveness of Lasers for the Removal of Overpaint from a 20th C Minimalist Painting" C. McGlinchey, C. Stringari, E. Pratt, M. Abraham, K. Melessanaki, V. Zafiropoulos, D. Anglos, P. Pouli, C. Fotakis, 6th

International Conference on Lasers in the Conservation of Artworks-LACONA VI Proceedings, Vienna, Austria, (21-25 September 2005) Springer Proceedings in Physics **116**, 209-215, J. Nimmrichter; W. Kautek, M. Schreiner (Eds.) 2007.

8. "A parametric linear correlation method for the analysis of LIBS spectral data" E. Tzamali, D. Anglos, 6th International Conference on Lasers in the Conservation of Artworks-LACONA VI Proceedings, Vienna, Austria, (21-25 September 2005) Springer Proceedings in Physics **116**, 377-382, J. Nimmrichter; W. Kautek, M. Schreiner (Eds.) 2007
9. "A novel approach on the combined *in-situ* application of LIBS and μ -XRF spectrometers for the characterization of copper alloy corrosion products" V. Kantarelou, C. Zarkadas, A. Giakoumaki, M. Giannoulaki, A. G. Karydas, D. Anglos, V. Argyropoulos, Metal 2007 Proceedings, Amsterdam, The Netherlands (17-21 September 2007); METAL-07, Vol. 2, Innovative investigation of metal artifacts, 35-41 (2007)
10. "Developing Innovative Portable Diagnostic Techniques and Approaches for the Analysis of Metal Artefacts from Museum Collections", V. Argyropoulos, M. Giannoulaki, D. Anglos, P. Pouli, M. Abdel Harith, A. Elhassan, A.G. Karydas, Ch. Zarkadas, V. Kantarelou, A. Arafat, N. Haddad, 7th European Conference "SAUVEUR", Safeguarded Cultural Heritage, Understanding & Viability for the Enlarged Europe, Proceedings, 79-89, (2007)
11. "A systematic approach for the damage assessment of museum metals collections based on statistics and portable techniques: the case study of ancient Messene, Greece", M. Giannoulaki, V. Argyropoulos, T. Panou, G. Michalakakos, A.G. Karydas, V. Kantarelou, D. Anglos, A. Giakoumaki, V. Perdikatsis, C. Apostolaki, P. Themelis, S. Poulimenea" ARCHAIA, Case Studies on Research Planning, Characterisation, Conservation and Management of Archaeological Sites, N. Marchetti, I. Thuesen, Eds BAR International Series 1877, 121-129 (2008).
12. "Laser-Like Emission From Highly Scattering ZnO Nanoparticle Films" A. Stassinopoulos, E. D. Tsagarakis, R. N. Das, E. P. Giannelis, S. H. Anastasiadis, D. Anglos, 7th International Conference on laser Applications-ICLA2009, Cairo, Egypt 17-21/05/2009 in AIP Conference Proceedings Vol. **1172**, 44-48, M. A. Harith (Ed) 2009.
13. "Semi Quantitative Analysis of Euro Coins Via Femtosecond LIBS Technique" A. Elhassan, A. Giakoumaki, D. Anglos, M. A. Harith, 7th International Conference on laser Applications-ICLA2009, Cairo, Egypt 17-21/05/2009 in AIP Conference Proceedings Vol. **1172**, 81-84, M. A. Harith (Ed) 2009.