

<b>RESEARCH DIVISION:</b>	<b>Laser Interactions and Photonics</b>	
<b>ACTIVITY NAME:</b>	Diagnostic Methodologies and Instrumentation/ Photonics for Heritage Science	
<b>Group members (number):</b>	<b>Scientific staff:</b> e.g. 3/3, <b>postdocs:</b> 2/3, <b>PhDs:</b> -/1, <b>MScs:</b> -/1, <b>technicians:</b> 1/3. TOTAL: 6 / 11	
<b>PERSONAL INFORMATION</b>		
<b>Surname, Name:</b>	<b>ANGLOS, Demetrios</b>	<b>Nationality:</b> Greek
<b>Researcher unique identifier:</b>	Google Scholar : <a href="https://scholar.google.com/citations?user=5MZsDa0AAAAAJ&amp;hl=de">https://scholar.google.com/citations?user=5MZsDa0AAAAAJ&amp;hl=de</a> ResearcherID: A-2548-2014 ( <a href="http://www.researcherid.com/rid/A-2548-2014">http://www.researcherid.com/rid/A-2548-2014</a> )	
<b>URL for web site:</b>	<a href="#">Prof. Anglos Demetrios   IESL-FORTH</a>	
<b>CURRENT POSITION (S)</b>		
09/2016 – present:	Professor, Department of Chemistry, University of Crete	
<b>PREVIOUS POSITIONS</b>		
09/2009 - 09/2016	Associate Professor, Department of Chemistry, University of Crete	
04/2005 - 09/2009	Principal Researcher, IESL-FORTH	
11/2001 - 04/2005	Associate Researcher, IESL-FORTH	
03/2001 - 12/2015	Technical Manager, Ultraviolet Laser Facility, IESL-FORTH	
1999 - 2001	Research Scientist, IESL-FORTH	
1995 - 1999	Post-doctoral Research. Fellow, IESL-FORTH	
<b>EDUCATION</b>		
1989-1994	PhD, Physical Chemistry, Cornell University, USA Thesis: Photoinduced intrapeptide electron transfer involving novel donor and acceptor amino acids: A triplet state approach	
1986-1989	MSc, Physical Chemistry, Cornell University, USA	
1980-1985	BSc, Chemistry, University of Athens, Greece	
<b>RESEARCH INTERESTS:</b>	Laser spectroscopic techniques in materials analysis – Applications in Heritage Science Molecular and nanoparticle photophysics and photochemistry – Photonic sensing applications	
<b>RESEARCH FUNDING:</b>	approx. 2.4 M€ as PI (since 2010)	
<b>PUBLICATIONS IN INTERNATIONAL REFEREED JOURNALS</b>		
<b>Nr. of published papers:</b>	107	<b>Nr. of patents:</b> -
<b>Journal Distribution:</b>	Spectrochim. Acta B (13), Appl. Spectrosc. (8), Appl. Phys. A (8), Appl. Surf. Sci. (6), Anal. Bioanal. Chemistry (4), J. Arch. Sci. (4), Analytical Chemistry (2).	
<b>Nr. of keynote and invited talks in conferences/summer schools/workshops/colloquia:</b>	25 Invited (conferences)	
<b>Nr. of citations (C) and h-factor:</b>	C = 4660, h = 40 (Researcher ID) and C = 6585, h = 43 (google scholar)	
<b>Awards:</b> -	-	
<b>SHORT TERM GOALS</b>		
1	Introducing micro-LIBS instrumentation in archaeological and paleontological research for obtaining rapid elemental imaging of stones, hard tissues etc.	
2	Developing protocols based on fluorescence, SERS and NMR spectroscopy for the screening and analysis of bio-organic residues in historical and archaeological contexts.	
<b>LONG TERM GOALS</b>		
1	Establishing, in the field of heritage science, efficient analytical methods based on molecular and/or atomic spectroscopies coupled to mobile instrumentation	
2	Working towards a European Research Infrastructure for Heritage Science	
<b>RESEARCH HIGHLIGHTS</b>		
1	P. Siozos et al “Application of laser-induced breakdown spectroscopy and neural networks on archaeological human bones for the discrimination of distinct individuals”, J. Arch. Science: Repts, <b>35</b> , 102769 (2021); doi.org/10.1016/j.jasrep.2020.102769	
2	G. Flouda et al “Materials analyses of stone artifacts from the EBA to MBA Minoan Tholos Tomb P at Porti, Greece (Crete), by means of Raman spectroscopy: Results and a critical assessment of the method”, J. Arch. Science: Repts, <b>32</b> , 102436 (2020); doi.org/10.1016/j.jasrep.2020.102436	

- 3 N. Hausmann et al “Extensive elemental mapping unlocks Mg/Ca ratios as climate proxy in seasonal records of Mediterranean limpets”, *Scientific Reports*, **9**:3698 (2019); doi.org/10.1038/s41598-019-39959-9
- 4 O. Kokkinaki et al “Assessing the type and quality of high voltage composite outdoor insulators by remote LIBS analysis: A feasibility study”, *Spectrochimica Acta Part B* **165**, 105768 (2020); doi.org/10.1016/j.sab.2020.105768
- 5 Klini et al “Low Energy Pulsed Laser Excitation in UV Enhances the Gas Sensing Capacity of Photoluminescent ZnO Nanohybrids”, *Sensors*, **19**, 5490 (2019); doi:10.3390/s19245490
- 6 K. Marmatakis et al “Elemental and molecular analysis of metal containing biomolecules using laser induced breakdown spectroscopy and sonic spray ionization mass spectrometry: A step towards full integration and simultaneous analysis”, *Spectrochimica Acta Part B* **126**, 103-109 (2016); doi: 10.1016/j.sab.2016.10.020
- 7 L. Bertrand et al “Mitigation strategies for radiation damage in the analysis of ancient materials”, *TrAC* **66**, 128-45 (2015); doi: 10.1016/j.trac.2014.10.005
- a. Klini et al “ZnO–PDMS Nanohybrids: A Novel Optical Sensing Platform for Ethanol Vapor Detection at Room Temperature” *J. Phys. Chem C* **119**, 623-31 (2015); doi: 10.1021/jp506632d
- 8 A.B. Bourlinos et al "Surface Functionalized Carbogenic Quantum Dots" *Small* **4**, 455-458 (2008); doi:10.1002/sml.200700578
- 9 V. Piñon et al "Double pulse LIBS with femtosecond laser pulses" C. Fotakis, G. Nicolas D. Anglos, *Spectrochimica Acta Part B* **63**, 1006-10 (2008)