



### Melpomeni Ntousikou

**Title:** Laboratory and Teaching Assistant (Analytical Chemistry)

**Sector:** I (Theoretical Chemistry, Physical Chemistry, Inorganic Analysis, Instrumental Analysis, Chemical Instrumentation and Chemical Engineering)  
Analytical and Environmental Chemistry and Technology

Phone: +30 210 7274388 (office), Fax: +30 210 7274750 (office)

#### Academic Qualifications:

- Ph.D. in Chemistry (2004) Dept. of Chemistry, University of Athens
- M.Sc. in Chemistry research (2000) Dept. of Chemistry, King's College London
- B.Sc. in Chemistry (1999) Dept. of Chemistry, University of Surrey

#### Teaching Activities: (current)

##### Undergraduate courses

- Laboratory tutorials, Analytical Chemistry, compulsory, second year students, Pharmaceutical Department
- Laboratory practice, Analytical Chemistry, compulsory, second year students, Pharmaceutical Department
- Laboratory practice, Analytical Chemistry, first year students, compulsory, Department of Chemistry
- Laboratory practice, Analytical Chemistry, compulsory, first year students, Department of Biology
- Lectures on Analytical Chemistry

##### Postgraduate courses

- Lectures on Biosensors

#### Research Interests/Activities:

- Design of sensors/biosensors
- Electrochemistry
- Analytical applications
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#### Scientific Publications/Citations:

- 2 publications in refereed journals
- 6 citations.
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#### Publications

- "Determination of Catalase-like Activity in Plants Based on the Amperometric Monitoring of Hydrogen Peroxide Consumption Using a Carbon Paste Electrode Modified with Ruthenium(IV) Oxide" Melpomeni F. Dousikou, Michael A. Koupparis and Constantinos E. Efstathiou, *Phytochem. Anal.* 17: 255–261 (2006).
- "Rapid assay of Bisphenol A released from baby feeding bottles by adsorptive stripping voltammetry on a diphenylether carbon paste electrode", Afroditi Symeonidou, Anastasios Economou, Constantinos E. Efstathiou, and Melpomeni Dousikou, *Analytical Letters*, 45: 436–448 (2012)

#### Conferences:

- Royal Society of Chemistry, Faraday Discussion 116: Bioelectrochemistry, University of Southampton, UK, 17<sup>th</sup>-19<sup>th</sup> July (2000)  
«Biosensors for in vivo monitoring based on non-conducting polymer films»  
A.Syed, M.N.Patel, M.Dousikou, J. P. Lowry, M.G.Boutelle
- 3<sup>rd</sup> Aegean Analytical Chemistry Days  
Polihnitos, Lesvos September 29<sup>th</sup> –3<sup>rd</sup> October 2002  
A comparative study of carbon paste electrodes modified with manganese(IV) oxide, ruthenium(IV) oxide and dispersed platinum as amperometric detectors for H<sub>2</sub>O<sub>2</sub> for flow injection system.  
M.F. Dousikou, M.A. Koupparis, C.E. Efstathiou
- Instrumental Methods of Analysis Modern Trends and Applications (IMA'03) Thessaloniki, September 23<sup>rd</sup>-27<sup>th</sup> (2003)  
Glucose biosensor based on carbon paste electrode  
M.F. Dousikou, M.A. Koupparis, C.E. Efstathiou
- Instrumental Methods of Analysis Modern Trends and Applications (IMA'05)  
Iraklion, Crete, 2<sup>nd</sup>-6<sup>th</sup> October (2005)  
Study on the electro-oxidation of the 3,4-Dihydroxybenzaldehyde derivative of semicarbazide on carbon paste electrodes  
A.K. Morou, M.F. Dousikou, N.S. Thomaidis, C.E. Efstathiou, M.A. Koupparis
- Instrumental Methods of Analysis Modern Trends and Applications (IMA'09)  
Athens, 4<sup>th</sup>-8<sup>th</sup> October (2009)  
Determination of Bisphenol-A by Adsorptive Stripping Voltammetry on a Diphenyl-Ether Carbon-Paste Electrode  
Symeonidou A, Economou A, Efstathiou C, Dousikou M

#### Other Activities:

Secretariat at 3<sup>rd</sup> Aegean Analytical Chemistry Days, September 29 - October 3, 2002, Polihnitos, Lesvos, Greece