



# Antony C. Calokerinos

Professor of Analytical Chemistry



## Education

B.Sc. in Chemistry, University of Athens (1974)  
M.Sc. in Analytical Chemistry, University of Birmingham, U.K. (1975)  
Ph.D. in Chemistry, University of Birmingham, U.K. (1978)  
Sabbatical visit, University of Hull, U.K. (1981)



## Research Field of Interest

1. Chemiluminescence in gas and liquid state
2. Ozone chemiluminescence and reactions with halogenated compounds
3. Flame reactions and chemiluminescence
4. Flow Injection Analysis
5. Quality control of Olive Oil and other natural products



## Teaching

### Undergraduate:

Chemical Equilibrium, Qualitative Analysis, Quantitative Analysis

### Graduate:

Analytical Chemistry, Advanced Analytical Chemistry  
Quality Control of packaging and other materials – migration



## Book Authorship

"Special Topics in Analytical Chemistry" (Athens, 1989, in Greek, 3 co-authors)

"Flame Chemiluminescence by Molecular Emission Cavity Detection " A. C. Calokerinos, D. A. Stiles and A. Townshend (Editors), J. Wiley and Sons, Ltd., Chemical Research Series, 1994

"Quantitative Analysis", 2 co-authors, in Greek, Athens, 1998,  
Chapter "Chemiluminescence in Flow Injection Analysis" in the book  
"Chemiluminescence in Analytical Chemistry", Ana M. Garcia-Campana and  
Willy R. G. Baeyens, Marcel Dekker Inc., 2001



## Selected Papers

A. M. Garcia-Campana, W.R.G. Baeyens, X.R. Zhang, E. Smet, G. Van Der Weken, K. Nakashima, A. C. Calokerinos: "Detection in the Liquid Phase Applying Chemiluminescence", Biomedical Chromatography, 2000, 14, 166-172.

N. T. Deftereos, N. Grekas, A. C. Calokerinos: "Flow injection chemiluminometric determination of albumin", Analytica Chimica Acta, 2000, 403, 137-143.

A. Pena, L. P. Palilis, C. M. Lino, M. Irene Silveira, A. C. Calokerinos: "Determination of tetracycline and its major degradation products by chemiluminescence", Analytica Chimica Acta, 2000, 405, 51-56.

- A. Mitsana-Papazoglou, A. Fragaki, P. Chamosfakidi, A. C. Calokerinos: "Chemiluminometric Behaviour of Erythromycin and Related Compounds", *Analytica Chimica Acta*, 2000, **410**, 153-157.
- L. P. Palilis, A. C. Calokerinos: "Analytical Applications of Chemiluminogenic Reactions", *Analytica Chimica Acta*, 2000, **413**, 175-186
- N. Pinotsis, A. C. Calokerinos, W. R. G. Baeyens: "Chemiluminometric determination of Reserpine and related alkaloids", *Analyst*, 2000, **125**, 1307-1311
- P. Fletcher, K. N. Andrew, A. C. Calokerinos, S. Forbes, P. J. Worsfold: "Analytical Applications of Flow Injection Chemiluminescence Detection - A review", *Luminescence*, 2001, **16**, 1-23
- A. M. Mihalatos, A. C. Calokerinos: "Determination of halogenated hydrocarbons by flow injection ozone chemiluminescence", *Analytica Chimica Acta*, 2002, **451**, 189-194
- Nikolaos S. Thomaidis, Constantinos A. Georgiou, Antony C. Calokerinos: "Analytical chemistry in Balkan and East Mediterranean countries during 1994-2001", *Analytica Chimica Acta*, 2004, **505**, 3-8
- V. Stepanyan, A. Arnous, C. Petrakis, P. Kefalas, A. Calokerinos: "Chemiluminescent evaluation of peroxide value in olive oil", *Talanta*, 2005, **65**, 1056-1058
- Meropi Timotheou-Potamia, Antony C. Calokerinos: "Chemiluminometric determination of vanillin in commercial vanillin products", *Talanta*, 2007, **71(1)**, 208-212
- S. Bezzi, S. Loupassaki, C. Petrakis, P. Kefalas, A. Calokerinos: "Evaluation of peroxide value of olive oil and antioxidant activity by luminol chemiluminescence", *Talanta*, 2008, **77 (2)**, 642-646
- P. D. Nikolaou, I. I. Papoutsis, J. Atta-Politou, S. A. Athanaselis, C. A. Spiliopoulou, A. C. Calokerinos, C. P. Maravelias: "Validated method for the simultaneous determination of methadone and its main metabolites (EDDP and EMDP) in plasma of umbilical cord blood by gas chromatography-mass spectrometry", *Journal of Chromatography B*, 2008, **867 (2)**, 219-225
- P. Nikolaou, I. Papoutsis, J. Atta-Politou, A. Calokerinos, C. Spiliopoulou, S. Athanaselis, C. Maravelias: "A validated gas chromatography-mass spectrometric method for the determination of methadone and its metabolites, EDDP and EMDP, in human breast milk" *Toxicology Letters*, 2008, **180 (Supplement 1)** S137
- D. Christodouleas, C. Fotakis, K. Papadopoulos, E. Yannakopoulou, A.C. Calokerinos, "Development and validation of a chemiluminogenic method for the evaluation of antioxidant activity of hydrophilic and hydrophobic antioxidants" *Analytica Chimica Acta*, 2009, **652(1-2)** 295-302



### Contact

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