



Constantinos E. Efstathiou

Title: Professor Emeritus of Analytical Chemistry

Sector: Theoretical Chemistry, Physical Chemistry, Inorganic Analysis, Instrumental Analysis, Chemical Instrumentation and Chemical Engineering

Phone: +30 210 7274312 (office)

Fax: +30 210 7274557 (office)

Email: cefstath@chem.uoa.gr

Academic Qualifications:

- D. Sc. in Analytical Chemistry (1982) Faculty of Science, University of Athens (UoA)
- Ph.D. in Chemistry (1976) Dept. of Chemistry, UoA
- B.Sc. in Chemistry (1971) Dept. of Chemistry, UoA

Appointments:

- 2016- : Professor Emeritus
- 1994-2015: Director of Analytical Chemistry Laboratory, UoA
- 1993-2015: Professor, Chemistry Dpt, UoA
- 1987-1993: Associate Professor, Chemistry Dpt, UoA
- 1983-1987: Assistant Professor, Chemistry Dpt, UoA
- 1982-1983: Lecturer, Chemistry Dpt, UoA
- 1976-1977: Research Associate, Chemistry Dpt, University of Illinois, Urbana, USA
- 1974-1982: Tutor and Senior Tutor, Laboratory of Analytical Chemistry, UoA
- 1973-1974: Research Associate, Laboratory of Analytical Chemistry, UoA

Teaching Activities:

Undergraduate courses

- General Analytical Chemistry
- Instrumental Analysis
- Chemical Instrumentation and Microcomputers

Postgraduate courses

- Electroanalysis
- Chemometrics

Research Interests/Activities:

- Kinetic analysis
- Ion-Selective Electrodes - Voltammetric methods - Modified Electrodes
- Flow injection analysis
- Chemometrics
- Microcomputer automated analytical methods

Scientific Publications/Citations:

- 101 publications in refereed journals
- Many conference publications
- More than 1500 citations
- Author/co-author of five books: (1) Problems Solving in Analytical Chemistry (in Greek and English), (2) Special Topics in Analytical Chemistry, (3) Instrumental Analysis, (4)

Chemical Instrumentation, (5) Greek/English Dictionary of Chemical and Chemistry Related Terms.

- Chapters in International Analytical Chemistry Books (Encyclopedia of Analytical Chemistry, Topics in Biophysics)

Top five publications

- G. J. Volikakis, C. E. Efstathiou: "Determination of Rutin and other Flavonoids by Flow-Injection/Adsorptive Stripping Voltammetry Using Nujol-Graphite and Diphenylether-Graphite Paste Electrodes", *Talanta*, **51**, 775-785 (2000)
- E. G. Cookeas, C. E. Efstathiou: "Flow-injection/Pulse Amperometric Detection of Ephedrine at a Cobalt Phthalocyanine Modified Carbon Paste Electrode", *Analyst*, **125**, 1147-1150 (2000)
- E. M. Avdikos, M. I. Prodromidis, C. E. Efstathiou: "Construction and Analytical Applications of a Palm-Sized Microcontroller-Based Amperometric Analyzer", *Sensors and Actuators B: Chemical*, **107**, 372-378 (2005)
- S. D. Bolis, P. C. Charalambous, C. E. Efstathiou, A. G. Mantzila, C. A. Malamou, M. I. Prodromidis: "Monitoring of the Avidin-Biotinylated Dextran Interaction on Au and Ti/TiO₂ Electrode Surfaces Using a Charge Integrating Device", *Sensors and Actuators B: Chemical*, **114**, 45-57 (2006)
- G. D. Koutilellis, A. Economou, C. E. Efstathiou: "A potentiostat featuring an integrator transimpedance amplifier for the measurement of very low currents – Proof-of-principle application in microfluidic separations and voltammetry", *Rev. Sci. Instrum.* **87**, 034101 (2016).

Other Activities:

- Member of European Chemistry Thematic Network (ECTN-Authoring of Echem-Test (in Analytical Chemistry) (2000 -)
- Member of Examination Committees (for the Public Sector and Scholarships)
- Member of various Conference Organizing Committees.
- Participation in various research projects
- Member of Scientific Terminology Committee, Technical Chamber of Greece, (2005 -)
- Authoring and maintenance of the on-line Greek-English Chemistry Dictionary (1998 -)
- Authoring and maintenance of the web-page "Chemical of the Month" (in Chemistry Department web-pages) (2005 -)