



Anastasios Economou

Title: Assistant Professor in Analytical Chemistry and Chemical Instrumentation

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

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Academic Qualifications:

- Ph.D. in Analytical Chemistry (1993) Dept. of Instrumentation and Analytical Science, University of Manchester, UK
- M.Sc. in Analytical Chemistry – Chemical Instrumentation (1989) Dept. of Instrumentation and Analytical Science, University of Manchester, UK
- B.Sc. in Chemistry (1988) Dept. of Chemistry, University of Athens

Appointments:

- April 2007-today: Assistant Professor, Dpt. of Chemistry, University of Athens
- January 2005-March 2007: Analyst, General Chemical State Laboratory
- September 2000-December 2004: Lecturer, Chemistry Department, University of Thessaloniki
- April 1999-August 2000: Research Associate in the Athens Wine Institute, N.AG.RE.F.
- November 1999-November 2000: Research Associate, Dpt. of Chemistry, University of Athens
- January 1997-July 1997: Research Associate, Dpt. of Chemistry, University of Athens
- April 1993-December 1996: Research Associate, Dept. of Instrumentation and Analytical Science, University of Manchester

Teaching Activities:

Undergraduate courses

- Instrumental Analysis I
- Chemical Instrumentation
- Advanced Analytical Techniques
- Completed: > 40 Diploma Theses

Postgraduate courses

- Advanced Analytical Chemistry-Electrochemistry
- Automated Methods Of Analysis
- Completed: >20 M.Sc. Dissertations
- Completed: 6 Ph.D. Theses

Research Interests/Activities:

- New electrochemical sensors.
- Chemometrics, signal processing techniques
- Chemical Instrumentation
- Gas and liquid chromatography, mass spectrometry
- Automated methods of analysis
- Analytical chemiluminescence
- Paper-based sensors
- 3D printed sensors

Scientific Publications/Citations:

- > 140 publications in refereed journals
- > 140 conference presentations
- More than 7000 citations (h-index 49)
- Author/co-author of 2 books and 14 book chapters

Top five publications

- "Paper-Based Microfluidic Device with Integrated Sputtered Electrodes for Stripping Voltammetric Determination of DNA via Quantum Dot Labeling", Christos T. Kokkinos, Dimosthenis L. Giokas, Anastasios S. Economou, Panagiota S. Petrou, Sotirios E. Kakabakos, *Anal. Chem.*, 90, 2018, 1092–1097
- "Integrated on-chip sensor with sputtered Ag-Au-Au electrodes for the voltammetric determination of trace Hg(II)", Elena Roditi, Maria Tsetsoni, Christos Kokkinos, Anastasios Economou, *Sensors & Actuators: B. Chemical*, 286, 2019, 125–130.
- "Multiplexed mycotoxins determination employing white light reflectance spectroscopy and silicon chips with silicon oxide areas of different thickness", Vasileios Anastasiadis, Georgios Koukouvinos, Panagiota S. Petrou*, Anastasios Economou, James Dekker, Mikko Harjanne, Paivi Heimala, Dimitris Goustouridis, Ioannis Raptis, Sotirios E. Kakabakos, *Biosensors and Bioelectronics*, 153, 2020, 112035.
- "Flexible microfabricated film sensors for the in situ quantum dot-based voltammetric detection of DNA hybridization in microwells", C. Kokkinos*, A. Economou, T. Speliotis, P. Petrou, S. Kakabakos, *Anal. Chem.*, 87, 2015, 853-857
- "A linear gradient sequential injection chromatography method exploiting programmable fluidics for the determination of three methylxanthines", Parthena Chorti, Melina Ntousikou, Anastasios Economou, *Talanta*, 202, 2019, 514–519.

Distinctions:

- Gordon Kirkbright Award 1995
- RSC Journal Grant for International Authors 1998
- National Scholarships Foundation (IKY) postdoctoral Scholarship 1999
- EPSCR and SAC Scholarships 1989-1993
- Empirikeion Foundation Awards 1999, 2009

Other Activities:

- Member of the ACS, RSC, Association of Greek Chemists
- Editor-in-chief of "Current Pharmaceutical Analysis", Bentham Science

- Editor of "International Journal of Analytical Chemistry, Hindawi
- Member of the editorial Board of "Research & Reviews in ElectroChemistry", "Pharmaceutica Analytica Acta", "ISRN Analytical Chemistry", "Talanta", "Sensors".
- Participation in 10 research Projects
- Referee for 30 international journals