



Maria Liouni

Title: Associate Professor on Industrial Chemistry
Sector: Organic Chemistry, Organic Chemical Technology, Food Chemistry, Biochemistry, Clinical Chemistry
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Academic Qualifications:

- Ph.D. in Chemistry (1988) Dept. of Chemistry, University of Athens
- B.Sc. in Chemistry (1975) Dept. of Chemistry, University of Athens

Appointments:

- November 2010-today: Associate Professor, Chemistry Department, University of Athens
- November 2010-June 1998: Assistant Professor, Chemistry Department, University of Athens
- June 1998-August 1990: Lecturer, Chemistry Department, University of Athens
- August 1990-October 1976: Research Associate, Chemistry Department, University of Athens

Teaching Activities: (current)

Undergraduate courses

- Chemistry and Technology of Wine and other alcoholic Beverages

Postgraduate courses

- Industrial Fermentations -Technology of Distillates
- Microbiology of Wine
- Quality, Hygiene and Safety in Wine and alcoholic Beverages Production. Wine and Health
- Supervisor of 3 Ph.D dissertations
- Supervisor of 13 Master' s theses

Research Interests/Activities: (last 10 years)

- NMR Metabolomics in grape derived products
- Classification of alcoholic beverages through multivariate data analysis
- Assessment of antioxidant activity in wine, aged grape marc distillates and whiskey
- Alcoholic fermentation using entrapped yeast
- Implementation of GC, GC/MS in order to identify volatile constituents in beer, wine and Greek grape marc distillates
- Study and application of HACCP in wine industry

Scientific Publications/Citations:

- 9 publications in refereed journals
- 20 refereed conference participations

- 32 citations. (H-index 3)

Top five publications

- 'Authenticity of the traditional cypriot spirit "zivania" on the basis of H-1 NMR spectroscopy diagnostic parameters and statistical analysis' P. Petrakis, I. Touris, M. Liouni, M. Zervou, I. Kyrikou, R. Kokkinofa, C.R. Theocharis, T. Mavromoustakos, J. Agric. Food Chem., 53 (2005) 5293.
- 'Studies of the mechanical properties and the fermentation behavior of double layer alginate-chitosan beads, using Saccharomyces cerevisiae entrapped cells' M. Liouni, P. Drichoutis, E. T. Nerantzis, World J. Microbiol. Biotechnol., 24 (2008) 281.
- 'Identification of volatile constituents of beer using resin adsorption and chiral GCMS. Correlation with malt type and brewing method' E. Pothou, E. Melliou, P. Magiatis, A. Skaltsounis, M. Liouni, Planta Med. 75 (2009) 1022.
- '¹H NMR based metabolic monitoring of Greek white wines' K. Kokkotou, M. Zervou, P. Zoumpoulakis, C. Fotakis, P. Moulos, A. T. Kakoulidou, M. Liouni, Proceedings of the WAC2011 international conference. (2011)
- 'Chronoamperometry as a tool for the evaluation of antioxidant properties of red wines. ' N. Zikos, A. Karaliota, M. Liouni, J. Anal. Chem. 66 (2011) 859.

Other Activities:

- Participation in 1 research Project, Thalís (2011)
- Member of the postgraduate courses committee
- Supervisor for 54 diploma theses
- Supervisor for 25 Master' s theses and 6 Ph.D. theses