

## Curriculum Vitae



**NAME** Anna  
**SURNAME** Bletsou  
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**NATIONALITY** Greek  
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### **EDUCATION**

- **High School Education:** Varvakio experimental College, 2004 (grade:19.5/20)
- **BSc:** Graduate of National Kapodistrian University of Athens, Department of Chemistry 2004-2009, grade: very good.
- **MSc:** "Analytical Chemistry – Quality Control", grade: excellent.
  - National and Kapodistrian University of Athens, 2009-2010
  - University of Vienna, Austria 2010-2011.
- **PhD degree:** National and Kapodistrian University of Athens, Department of Chemistry, 2012- 2015, grade: excellent.

### **SCIENTIFIC KNOWLEDGE**

- Excellent knowledge of advanced analytical techniques:
  - Sample preparation (SPE, dSPE, QuEChERS, microwave, ultrasonic, LLE, etc)
  - Liquid and gas chromatography (RP, HILIC and chiral chromatography)
  - Mass spectrometry
  - High Resolution Mass Spectrometry (HRMS)
  - Chemometrics
  - Qualitative and quantitative analysis
- Target, Suspect and Non-target screening of emerging contaminants by HRMS
- Knowledge of international standards (ISO 9001, 17025:2005, 14001 and HACCP)
- Capability of developing and validating analytical methods
- Extensive knowledge in the area of food and environmental analysis (different contaminants areas: veterinary drugs, illicit drugs, pesticides, mycotoxins, vitamins)
- Synthesis of stationary phases for Liquid Chromatography and characterization of novel RP and HILIC columns

## WORKING EXPERIENCE

- Supervisor's assistant in the Laboratory of Analytical Chemistry at University of Athens, 2009-2015.
- Part of the research group of Dr. N. Thomaidis, 2008- now (<http://trams.chem.uoa.gr/group.html>)
- Analytical services to food industry (veterinary drugs, pesticides, vitamins, etc) with LC-QqQ-MS/MS and LC-QToF-HRMS in the Laboratory of Analytical Chemistry at University of Athens, 2008- now
- Part of research group of Dr. W. Lindner, University of Vienna, Austria, 2010-2011.
- Part of research group of Dr. K. Kannan, Wadsworth Center, New York State Department of Health, and Department of Environmental Health Sciences, USA, 2012.
- THALES project (Ministry of Education, 2012 - 2015).
- ARISTEIA project (Ministry of Education, 2012 - 2015).

## SCIENTIFIC WORK

### Graduate assignment at the department of Analytical Chemistry of National and Kapodistrian University of Athens

**SUBJECT:** Determination of pesticides in vegetables and water by Liquid Chromatography (LC) tandem mass spectrometry detection (MS/MS) and Gas Chromatography (GC) Electron Capture Detector (ECD) and Nitrogen- Phosphorus Detection (NPD).

### Master thesis at the department of Analytical Chemistry of National and Kapodistrian University of Athens

**SUBJECT:** Determination of 6 multiclass pesticides (bifenthrin, iprodione, lufenuron, thiacloprid, spinosad, pyridalyl) in vegetables by Liquid Chromatography (LC) tandem mass spectrometry detection (MS/MS).

### Erasmus programme at the department of Analytical Chemistry of University of Vienna

**SUBJECT:** Development and Characterization of novel reversed-phase liquid chromatography stationary phases based on dimedone.

### Thalis project

**SUBJECT:** Investigation of organic micro pollutants in wastewater treatment and study of their behavior during wastewater disposal to the aquatic environments –WATERMICROPOL

Project Leader Ath. Stasinakis, University of the Aegean (Ministry of Education, 2012 - 2015).

### ARISTEIA project

**SUBJECT:** Transformation Products of Emerging Pollutants in the aquatic environment – TREMEPOL

Project Leader N. S. Thomaidis, University of Athens (Ministry of Education, 2012 - 2015).

### PhD thesis at the department of Analytical Chemistry of National and Kapodistrian University of Athens

**SUBJECT:** Development of Mass Spectrometric Methods for the determination of Emerging Pollutants in wastewater.

## FOREIGN LANGUAGES

- **English:** Certificate of Proficiency in English (C2) of University of Cambridge (2002)  
Certificate of Proficiency in English (C2) of University of Michigan (2002)
- **French:** Diplôme approfondi de langue française DALF C2 (2007)
- **German:** Goethe – Zertifikat B2 (2009)
- **Spanish:** Basic level of knowledge (2010)

## HONORY AWARDS

- Prize “Σαφή” for high performance in exams of Chemistry (2004).
- Prize “Σαφή” for high performance in exams of Physics (2004).
- Scholarship by the State Scholarships Foundation for the introduction in the department of chemistry with the second best mark (2004).
- Scholarship by the Erasmus mobility Programme (2010).

## COMPUTER SKILLS

- Microsoft Office (Excel, Powerpoint, Access, Word)
- Statistica
- Statgraphics
- SPSS software

## SKILLS & INTERESTS

- lifeguard license (2005)
- Swimming and gym
- Jewelry making
- Reading
- Travels

## CONFERENCES - SEMINARS

- |                   |   |
|-------------------|---|
| 23-24/11/2009     | AOAC/ASFILAB International Workshop “New trends on Food Analysis: from LC MS-MS to UPLC” Vitamins, Drug residues, Allergens, Mycotoxins and Pesticides, Paris, France |
| 29/09- 03/10/2010 | 7th Aegean Analytical Chemistry Days (AACD2010), Lesvos, Greece - <i>Organizing Committee</i>   |
| 22-23/02/2011     | MassSpec-Forum, Vienna, Austria.  |
| 22-25/03/2011     | ANAKON 2011, ETH, Zurich, Switzerland   |
| 18-22/09/2011     | 7th International Conference of Instrumental Methods of Analysis Modern Trends and applications, Chania, Greece   |
| 1-4/11/2011       | 5th International Symposium on Recent Advances in Food Analysis, Prague, Czech Republic   |

## Curriculum Vitae – Bletsou Anna

27/11/2012	NORMAN training workshop NORMAN MassBank, Amsterdam, The Netherlands
29-30/11/2012	Emerging pollutants in the environment – chemical analysis and toxicological assessment. Workshop at the Auditorium, VU University NORMAN training workshop, Amsterdam, The Netherlands
05-07/09/2013	13 <sup>th</sup> International Conference on Environmental Science and Technology, CEST, Athens - <i>Organizing Committee</i>
15-19/09/2013	8th International Conference of Instrumental Methods of Analysis Modern Trends and applications IMA, Thessaloniki
23-25/10/2013	training course "Basic Operator Training Course – Low Molecular Weight Applications", Bruker Daltonik, Bremen
10-14/09/2014	248th ACS National Meeting & Exposition, San Francisco, USA
10-14/09/2014	13th IUPAC International Congress of Pesticide Chemistry, San Francisco, USA
28/07-02/18/2015	3rd Mediterranean Sea Region Countries Mass Spectrometry (MEDMS III) Workshop, Athens, Greece
01-02/09/2015	1st NORMAN workshop on analysis of problematic compounds: How can we analyse very polar and hardly-ionisable compounds, Rhodes, Greece - <i>Organizing Committee</i>
03-05/09/2015	14th International Conference on Environmental Science and Technology, CEST, Rhodes, Greece - <i>Organizing Committee</i>

## PUBLICATIONS

### International scientific journals with peer review

1. Nikolaos S. Thomaidis, Alexandros G. Asimakopoulos, Anna A. Bletsou "Emerging contaminants: a tutorial mini-review" *Global NEST Journal*, **2012**, 14 (1), 70-77.
2. Anna A. Bletsou, Ahmed H. Hanafi, Marilena E. Dasenaki, Nikolaos S. Thomaidis "Development of specific LC-ESI-MS/MS methods to study the degradation rates and the Pre Harvest Intervals (PHI) of bifenthrin, lufenuron and iprodione in green beans, peas and chilli peppers under Egyptian field conditions" *Food Analytical Methods*, **2013**, 6, 1099–1112.
3. Alexandros G. Asimakopoulos, Anna A. Bletsou, Qian Wu, Nikolaos S. Thomaidis, Kurunthachalam Kannan "Determination of 1,2,3-Benzotriazoles and 1,3-Benzothiazoles in Human Urine by Liquid Chromatography-Tandem Mass Spectrometry" *Analytical Chemistry*, **2013**, 85, 441-448.
4. Anna A. Bletsou, Alexandros G. Asimakopoulos, Athanasios S. Stasinakis, Nikolaos S. Thomaidis, Kurunthachalam Kannan "Mass loading and fate of linear and cyclic siloxanes in wastewater treatment plant in Greece" *Environmental Science and Technology*, **2013**, 47, 1824–1832.
5. Akinranti Ajibola, Pablo Gago-Ferrero, Viola L. Borova, Marilena E. Dasenaki, Anna A. Bletsou and Nikolaos S. Thomaidis "Benzosulfonamides in wastewater: method development, occurrence and removal efficiencies" *Chemosphere*, **2015**, 119, S21-S27.
6. Aikaterini K. Psoma, Anna A. Bletsou, Ioannis N. Pasiyas, Nikolaos S. Thomaidis "Development and validation of a multi-residue method for the determination of pesticides in Chios mastic gum by QuEChERS and liquid chromatography - tandem mass spectrometry" *Food Analytical Methods*, **2015**, 8, 624-634.

7. Constantinos Noutsopoulos, Elena Koumaki, Daniel Mamais, Maria-Christina Nika, Anna A. Bletsou, Nikolaos S. Thomaidis "Removal of endocrine disruptors and non-steroidal anti-inflammatory drugs through wastewater chlorination: the effect of pH, total suspended solids and humic acids and identification of degradation by-products" *Chemosphere*, **2014**, 119, S109–S114.
8. Anna A. Bletsou, Junho Jeon, Juliane Hollender, Eleni Archondaki, Nikolaos S. Thomaidis "Targeted and non-targeted liquid chromatography-mass spectrometric workflows for identification of transformation products of emerging pollutants in the aquatic environment" *Trends in Analytical Chemistry*, **2015**, 66, 32-44.
9. Emma Schymanski, Heinz Singer, Jaroslav Slobodník, Ildiko Ipolyi, Peter Oswald, Martin Krauss, Tobias Schulze, Peter Haglund, Thomas Letzel, Sylvia Grosse, Nikolaos Thomaidis, Anna Bletsou, Christian Zwiener, Maria Ibáñez, Tania Portoles, Ronald de Boer, Malcolm Reid, Matthias Onghena, Uwe Kunkel, Wolfgang Schulz, Amelie Guillon, Naike Noyon, Gaëlle Leroy, Philippe Bados, Sara Bogialli, Drazenka Stipanicev, Pawel Rostkowski, Juliane Hollender "Non-target screening with high resolution mass spectrometry: Critical review using a collaborative trial on water analysis", *Analytical and Bioanalytical Chemistry*, **2015**, 407, 6237–6255.
10. Marilena E. Dasenaki, Anna A. Bletsou, George A. Koulis, Nikolaos S. Thomaidis "Qualitative multi-residue screening methods for 143 veterinary drugs and pharmaceuticals in milk and fish tissue using liquid chromatography quadrupole-time-of-flight mass spectrometry" *Journal of Agricultural and Food Chemistry*, **2015**, 63, 4493–4508.
11. Elena Koumaki, Daniel Mamais, Constantinos Noutsopoulos, Maria-Christina Nika, Anna A. Bletsou, Nikolaos S. Thomaidis, Alexander Eftaxias, Georgia Stratogianni "Degradation of emerging contaminants from water under natural sunlight: the effect of season, pH, humic acids and nitrate and identification of photodegradation by-products" *Chemosphere*, **2015**, 138, 675–681.
12. Pablo Gago-Ferrero, Emma L. Schymanski, Anna A. Bletsou, Reza Aalizadeh, Juliane Hollender, Nikolaos S. Thomaidis, "Extended suspect and non-target strategies to characterize emerging polar organic contaminants in raw wastewater with LC-HRMS/MS" *Environmental Science & Technology*, **2015**, 49, 12333–12341.
13. Maria-Christina Nika, Anna A. Bletsou, Elena Koumaki, Constantinos Noutsopoulos, Daniel Mamais, Athanasios S. Stasinakis, Nikolaos S. Thomaidis "Chlorination of benzothiazoles and benzotriazoles and transformation products identification by LC-HR-MS/MS" *Journal of Hazardous Materials*, **2016**, submitted.
14. Reza Aalizadeh, Nikolaos S. Thomaidis, Anna Bletsou, Pablo Gago-Ferrero "QSRR models to support non-target high resolution mass spectrometric screening of emerging contaminants in environmental samples" *Journal of Chemical Information and Modeling*, **2016**, submitted.

#### **In conference proceedings**

1. Anna Bletsou, Ahmad Hanafi, Marilena E. Dasenaki, Nikolaos S. Thomaidis "Development of specific LC-ESI-MS/MS methods to study the degradation rates and the Pre Harvest Intervals (PHI) of bifenthrin, lufenuron and iprodione in green beans and peas under the Egyptian field conditions" International Symposium on New Trends in Food Analyses - From LC MS Technologies to UPLC, AFSILAB – AOAC Int., **2009**, Paris.
2. Anna Bletsou, Georg Schuster, Wolfgang Lindner "Column Characterization of novel 2-acyl dimedone derived stationary phases ANAKON, **2011**, ETH, Zurich, p. 202.
3. Anna Bletsou, Georg Schuster, Wolfgang Lindner "Development and Characterization of novel reversed-phase liquid chromatography stationary phases based on dimedone" 7th International Conference of Instrumental Methods of Analysis Modern Trends and applications, **2011**, Chania, Greece.

4. Anna A. Bletsou, Ahmed H. Hanafi, Marilena E. Dasenaki, Nikolaos S. Thomaidis "Development of specific LC-ESI-MS/MS methods for the determination of spinosad, thiacloprid and pyridalyl and study of the degradation rates and the Pre Harvest Intervals in spring onions" 5th Int. Symp. On Recent Advances in Food Analysis, **2011**, Prague, p. 354.
5. Maria-Christina Nika, Anna A. Bletsou, Evangelos Gikas, Nikolaos S. Thomaidis "Investigating the degradation and by-product formation of benzothiazoles and benzotriazoles during chlorination" 8th International Conference on Instrumental Methods of Analysis, IMA, **2013**, Thessaloniki, Greece, poster presentation, proceedings p.105 (P1-18).
6. Anna A. Bletsou, Dimitrios E. Damalas, Alexandros Stouraitis, Asimina A. Papanastasiou, Nikolaos S. Thomaidis "Screening of emerging pollutants in wastewater samples using low and high resolution mass spectrometry" 8th International Conference on Instrumental Methods of Analysis, IMA, **2013**, Thessaloniki, Greece, oral presentation, proceedings p.78 (MO16).
7. Anna A. Bletsou, Aikaterini K. Psoma, Pablo Gago Ferrero, Nikolaos S. Thomaidis "Targeted determination of 1525 micropollutants and transformation products in wastewater by liquid chromatography quadrupole-time-of-flight mass spectrometry with an accurate-mass database", poster presentation, 248th ACS National Meeting & Exposition, **2014**, San Francisco.
8. Marilena E. Dasenaki, Anna A. Bletsou, Nikolaos S. Thomaidis, Tony Drury "Quantitative multi-residue method for 150 veterinary drugs and pharmaceuticals in meat using liquid chromatography quadrupole-time-of-flight mass spectrometry (LC-QToF-MS)", poster presentation, 248th ACS National Meeting & Exposition, **2014**, San Francisco.
9. Anna A. Bletsou, Marilena E. Dasenaki, Nikolaos S. Thomaidis, Emmanouil I. Dasenakis, Tony Drury, Petra Decker "Screening of pesticides residues and their metabolites in environmental samples using liquid chromatography quadrupole-time-of-flight mass spectrometry with an accurate-mass database", poster presentation, 13th IUPAC International Congress of Pesticide Chemistry, **2014**, San Francisco.
10. Maria Christina Nika, Anna Bletsou, Evangelos Gikas, Nikolaos Thomaidis "Degradation and by-products identification of benzothiazoles and benzotriazoles during chlorination by LC-HR-MS/MS", EuCheMS DCE Annual Meeting **2014**, Istanbul, poster award.
11. Aikaterini Psoma, Anna Bletsou, Nikolaos Thomaidis "Workflow for the identification of biotransformation products of amine-containing psychotropic drugs in the aquatic environment", EuCheMS DCE Annual Meeting **2014**, Istanbul, poster award.
12. Anna A. Bletsou, Dimitrios E. Damalas, Pablo Gago Ferrero, Emma L. Schymanski, Heinz P. Singer, Juliane Hollender, Nikolaos S. Thomaidis "Wide-scope target screening of 2327 emerging pollutants during wastewater treatment by RP-LC-QTOF-HR-MS/MS with an accurate-mass database", oral presentation, 14th International Conference on Environmental Science and Technology, CEST **2015**, Rhodes.
13. Anna A. Bletsou, Alexandros A. Markatis, Pablo Gago Ferrero, Emma L. Schymanski, Heinz P. Singer, Juliane Hollender, Nikolaos S. Thomaidis "HILIC-QTOF-HR-MS/MS for wide-scope screening of polar micropollutants in environmental samples" oral presentation, 14th International Conference on Environmental Science and Technology, CEST **2015**, Rhodes.

### In book chapters

1. Alexandros G. Asimakopoulos, Anna Bletsou, Kurunthachalam Kannan, Nikolaos S. Thomaidis "Recent Developments in Liquid Chromatography-Mass Spectrometry: Advances in Liquid Chromatographic Separations, Ionization Techniques/Interfaces" (chapter 5) in "Mass Spectrometry for Analysis of Pesticide Residues and their Metabolites", edited by Despina Tsiipi, Eleni Botitsi, Anastasios Economou, Wiley, **2015**, 113-130.
2. Marilena E. Dasenaki, Anna A. Bletsou, Nikolaos S. Thomaidis "ANTIBACTERIALS" (chapter 38) in "Handbook of Food Analysis, Third Edition" by Leo M.L. Nollet and Fidel Toldra (Eds), CRC Press, Boca Raton, FL, **2015**, in press.