# Valentina Gianotti

*Curriculum vitae*

## PERSONAL DATA

Valentina Gianotti was born in Asti (Italy), on July, 11th 1972.

## BIO AND EDUCATION

Degree in Chemistry by the University of Torino on 1996 (votation) 109/110. Ph.D. in Enviromental Science at the University of Piemonte Orientale "Amedeo Avogadro" on March 2000. Since November 2000 she is researcher at the Faculty Science at Università del Piemonte Orientale "Amedeo Avogradro

## UNIVERSITY CAREER

| | |
|---|---|
| 2000- | Researcher, Università del Piemonte Orientale |

## MAIN FIELDS OF INTEREST.

She is is author of 40 publications in international journals and of 40 communications at national and international conferences.

The research activity concerns the (pesticides, chlorophenols, aromatic amines, aromatic sulphonates in environmental matrices, pesticides in fruit and vegetables and biogenic amines in cheese) through the use of chemometric treatments of experimental design. The methods development is based on gas and liquid chromatography technique with UV-Vis, Diode Array and mass spectrometric detection; important is also the validation of the optimised methods performed by parametric and non-parametric statistical methods of intercalibration and test of robustness obtained with multivariate methods. Moreover she is involved in the study of the photodegradation of pollutants by chromatography and mass spectroscopy technique.

1. Development of new analytical methods
2. Development of remediation strategy based on cheap materials
3. Degradation and photodegradation study

## CURRENT ISSUES OF RESEARCH

1. **Development of new analytical methods** (eg.: "Myth and Modernity in Yeats")

Abstract – The research activity concerns the (pesticides, chlorophenols, aromatic amines, aromatic sulphonates in environmental matrices, pesticides in fruit and vegetables and biogenic amines in cheese) through the use of chemometric treatments of experimental design. The methods development is based on gas and liquid chromatography technique with UV-Vis, Diode Array and mass spectrometric detection; important is also the validation of the optimised methods performed by parametric and non-parametric statistical methods of intercalibration and test of robustness obtained with multivariate methods. Moreover she is involved in the study of the photodegradation of pollutants by chromatography and mass spectroscopy technique.

## CURRENT FUNDED PROJECTS

| PROGRAMME | FUNDED PROJECT |
|---|---|
| Bando POR-FESR Misura I.1.3. 2012 "Poli di Innovazione | Blow |
| European Metrology Research Programme (EMRP) | 3DMetChemIT "Advanced 3D chemical metrology for innovative technologies" |
| European Metrology Research Programme (EMRP) | EMPIR Project Innanopart ()<br>Metrology for Innovative Nanoparticles |
| European Metrology Research Programme (EMRP) | project new01-TReND<br>Traceable characterisation of nanostructured devices |

## TOP FIVE PAPERS

1. Benzi, M.; Robotti, E.; Gianotti, V.*, (2011).HPLC-DAD-MSn to investigate the photodegradation pathway of nicosulfuron in aqueous solution. Analytical and Bioanalytical Chemistry 399, 1705-1714.
2. Gianotti V., Favaro G., Bonandini L., Palin L., Croce G., Boccaleri E., Artuso E., van Beek W., Barolo C., Milanesio M., (2014). (Inside Cover)Rationalization of dye uptake on TiO2 slides for DSSC solar cells by a combined chemometric and structural approach.ChemSusChem, 7, 3039 – 3052 DOI:10.1002/cssc.201402194.
3. Gianotti V*., Antonioli D., Sparnacci K., Laus M, Giammaria T.J., Ceresoli M., Ferrarese Lupi F., Seguini G., Perego M., (2014).Characterization of ultra-thin polymeric films by GC-MS hyphenated to thermogravimetry.J. Chromatogr.A, 1368, 204-210 10.1016/j.chroma.2014.09.073.

4. Conterosito E., Croce G., Palin L., Antonioli D., Viterbo D., Mugnaioli E., Perioli L., Milanesio M., Gianotti V.* (2015). TGA-GC-MS study of complex LDH samples: degradation, deintercalation, and carbonate contamination in nitrate and organic-exchanged hydrotalcites. Chemistry – A European Journal. 10.1002/chem.201500450
5. Antonioli D., Sparnacci K., Laus M., Ferrarese Lupi F., Jacopo Giammaria T., Seguini G., Ceresoli M., Perego M. and Gianotti V* (2016). Thermogravimetry–Gaschromatography–Mass Spectrometry Determination of Binary Polymer Brush Composition in Ultra-Thin Films. Anal Bioanal Chem DOI 10.1007/s00216-016-9380-8.