

Maurizio Aceto

Curriculum vitae

PERSONAL DATA

Born in Torino on 28.10.1964

Resident in Torino

Mobile phone:

BIO AND EDUCATION

Prof. Maurizio Aceto had his scientific high school diploma in 1983; further on he graduated in Chemistry in 1988 at the Università degli Studi di Torino with 107/110, with an experimental thesis entitled "Caratterizzazione analitica di ceramiche del tipo *Terra Sigillata*", under the supervision of Prof. Piero Mirti. In the years 1989-92 he attended the PhD course in Chemical Sciences (V Cycle) at the Dipartimento di Chimica Analitica of Università di Torino, obtaining the PhD title in 1993 with a thesis entitle "Metalli pesanti in traccia ed ultratraccia nell'ambiente: valutazione di labilità, mobilità e speciazione". During PhD course, Dr. Aceto spent one month at the Department of Oceanography of University of Liverpool (Great Britain) under the supervision of Prof. Van den Bergh, to deepen his experience in the field of voltammetry.

UNIVERSITY CAREER

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| 2017-present | Associate Professor, Università del Piemonte Orientale |
| 2000-2017 | Full Researcher, Università del Piemonte Orientale |
| 1997-2000 | Researcher, Università del Piemonte Orientale |
| 1995-1997 | Post-doc scholarship, Università di Torino |
| 1993-1995 | Scholarship, Università di Torino |

UNIVERSITY POSITIONS

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SCIENTIFIC POSITIONS

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| 2002- | Founding member of CENISCO |
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MAIN FIELDS OF INTEREST

1. Traceability and authentication of foodstuffs
2. Characterisation of colourants in pictorial artworks
3. Characterisation of jewellery artworks
4. Non-invasive spectroscopic techniques in the analysis of cultural heritage items
5. UV-visible diffuse reflectance spectrophotometry

CURRENT ISSUES OF RESEARCH

1. Traceability and authentication of foodstuffs

Abstract – Characterization and classification of food, with particular reference to studies of authentication and traceability of typical products (honey, wine, truffles, mushrooms, hazelnuts) using analytical techniques such as ICP-MS, ion chromatography, GC-MS and HPLC; studies of correlation between chemical parameters and organoleptic parameters; development of advanced techniques in the determination of food quality according to analytical parameters.

2. Characterisation of colourants in pictorial artworks

Abstract – Identification of colourants on pictorial artworks (easel paintings, manuscripts, mural paintings) for authentication, dating, restoration/conservation, determination of the provenance.

3. Characterisation of jewellery artworks

Abstract – Study of jewellery artworks, ivory and enamels artworks by means of non-invasive or micro-invasive techniques, for authentication, dating, restoration/conservation, determination of the provenance.

4. Non-invasive spectroscopic techniques in the analysis of cultural heritage items

Abstract – Development of non-invasive methods for the identification of species of interest in the field of cultural heritage.

5. UV-visible diffuse reflectance spectrophotometry

Abstract – Study of the application of UV-visible diffuse reflectance spectrophotometry with optic fibres (FORS) to materials of interest in the field of cultural heritage.

CURRENT FUNDED PROJECTS

| PROGRAMME | FUNDED PROJECT |
|---|---|
| Bando Regione Piemonte 2008 "Scienze Umane e Sociali" | MEMIP – <u>"Medieval enamels, metalworks and ivories in Piedmont: art-historical and scientific methods for their evaluation"</u> |

TOP FIVE PAPERS

1. M. Aceto, A. Agostino, E. Boccaleri, A. Cerutti Garlanda, “The Vercelli Gospels laid open: an investigation into the inks used to write the oldest Gospels in Latin”, *X-Ray Spectrometry*, 37, 286-292 (2008).
2. L. Appolonia, D. Vaudan, V. Chatel, M. Aceto, P. Mirti, “A combined use of FORS, XRF and Raman spectroscopy in the study of mural paintings in the Aosta Valley (Italy)”, *Analytical and Bioanalytical Chemistry*, 395, 2005-2013 (2009).
3. A. Agostino, M. Aceto, G. Fenoglio, L. Operti, “Analisi non invasive sugli smalti limosini medievali di Palazzo Madama”, in *Smalti di Limoges del XIII secolo*, ed. by S. Castronovo, ISBN 978-88-7320-352-0, L'Artistica Editrice, Savigliano, 211-239 (2014).
4. M. Aceto, “Food forensics”, in *Advanced mass spectrometry for food safety and quality*, ed. by Y. Picó, ISBN 978-04-4463-340-8, vol 68, Comprehensive Analytical Chemistry, Elsevier, Amsterdam, 441-514 (2015).
5. A. Agostino, M. Aceto, G. Fenoglio, L. Operti, “Caratterizzazione chimica della coperta del Codice C”, in *Tabula ornata lapidibus diversorum colorum. La legatura preziosa del Codice C nel Museo del Tesoro del Duomo di Vercelli*, ed. by S. Lomartire, ISBN 9788867285907, Viella, Roma, 125-162 (2015).

AWARDS

FURTHER INFORMATION