



Papers

- 01) S.M. Jajaei, W.R.W. Daud and M. Markom, Z. Zakaria, Maria Lo Presti, Costa Rosaria, Luigi Mondello, Luca Santi.
Extraction of Melaleuca cajuputi Using Supercritical Fluid Extraction and Solvent Extraction
J. Essent. Oil Res, **22**, 205-210 (2010) ISSN 1041-2905 (May/June 2010, Allured Publishing Corporation, Carol Stream, IL, USA)
Original research paper
- 02) Maria Lo Presti, Maria Lucia Crupi, Rosaria Costa, Giovanna Dugo, Luigi Mondello, Salvatore Ragusa, Luca Santi.
Seasonal Variations of *Teucrium flavum* L. Essential Oil
J. Essent. Oil Res, **22**, 211-216 (2010) ISSN 1041-2905 (May/June 2010, Allured Publishing Corporation, Carol Stream, IL, USA)
Original research paper
- 03) Peter Quinto Tranchida, Giorgia Purcaro, Chiara Fanali, Paola Dugo, Giovanni Dugo, Luigi Mondello
Optimized Use of a 50 μm ID secondary column in comprehensive two-dimensional gas chromatography-mass spectrometry
J. Chromatogr. A, 1217, 4160-4166 (2010) ISSN 0021-9673 (June 2010 Elsevier, B.V., Amsterdam, The Netherlands)
Original research paper
- 04) Giorgia Purcaro, Peter Quinto Tranchida, Paola Dugo, Erminia La Camera, Giuseppe Bisignano, Lanfranco Conte, Luigi Mondello
Characterization of bacterial lipid profiles by using rapid sample preparation and fast comprehensive two-dimensional gas chromatography in combination with mass spectrometry
J. Sep. Sci., **33**, 2334-2340 (2010). ISSN 1615-9306. (August 2010, Wiley-VCH, Weinheim, Germany).
Original research paper
- 05) Peter Quinto Tranchida, Giorgia Purcaro, Danilo Sciarrone, Paola Dugo, Giovanni Dugo, Luigi Mondello
Accurate quadrupole MS peak reconstruction in optimized gas-flow comprehensive two-dimensional gas chromatography
J. Sep. Sci., **33**, 2791-2795 (2010). ISSN 1615-9306. (October 2010 Wiley-VCH, Weinheim, Germany)
Original research paper

- 06) Rosaria Costa, Paola Dugo, Luca Santi, Giovanni Dugo, Luigi Mondello
Advances of Modern Gas Chromatography and Hyphenated Techniques for Analysis of Plant Extracts
Current Organic Chemistry, **14** (16), 1752-1768, (2010). (October 2010 Bentham Science, The Netherlands)
Original research paper
- 07) Maria Scandinaro, Peter Quinto Tranchida, Rosaria Costa, Paola Dugo, Giovanni Dugo, Luigi Mondello
Rapid Quality Control of Flavours and Fragrance using Fast GC-MS and Multi-MS Library Search Procedures
LC GC Europe, **23** (9), 456-464, (2010) ISSN 1471-6577 (October 2010,
Original research paper
- 08) Giorgia Purcaro, Peter Quinto Tranchida, Carla Ragonese, Lanfranco Conte, Paola Dugo, Giovanni Dugo, Luigi Mondello
Evaluation of a Rapid-Scanning Quadrupole Mass Spectrometry in an Apolar x Ionic-Liquid Comprehensive Two-Dimensional Gas Chromatography System
Anal. Chem., **82** (20), 8583-8590 (2010). ISSN 0003-2700 (October 15, 2010, American Chemical Society, Washington. D.C., USA).
Original research paper
- 09) Giorgia Purcaro, Luigi Mondello, Margit Geissler
Analysis of Allergens in Perfume
G.I.T. Laboratory Journal, **14**, 36-37 (2010). ISSN 1611-6038 (GIT VERLAG GmbH & Co. KG, Darmstadt, Germany).
Original research paper
- 10) Rosaria Costa, Francesco Pizzimenti, Francesca Marotta, Paola Dugo, Luca Santi, Luigi Mondello.
Volatiles from steam-distilled leaves of some plant species from Madagascar and New Zealand and evaluation of their biological activity
Natural Product Communications, **5**(11), 1803-1808 (2010). ISSN 1934-578X (November 2010, Natural Product, Inc., Westerville, Ohio, USA).
Original research paper
- 11) Danilo Sciarrone, Rosaria Costa, Carla Ragonese, Peter Quinto Tranchida, Laura Tedone, Luca Santi, Paola Dugo, Giovanni Dugo, Daniel Joulain, Luigi Mondello.
Application of a multidimensional gas chromatography system with simultaneous mass spectrometric and flame ionization detection to the analysis of sandalwood oil
J. Chromatogr. A, **1218**, 137-142 (2011). ISSN 0021-9673 (January 2011 Elsevier, B.V., Amsterdam, The Netherlands)
Original research paper
- 12) Luigi Mondello, Peter Quinto Tranchida, Giorgia Purcaro, Chiara Fanali, Paola Dugo, Erminia La Camera, Carlo Bisignano.
Identification of the Bacterial Cellular Lipid Fraction by using FAST GC × GC-MS AND Innovative MS Libraries.
In Detection of Biological Agents for the Prevention of Bioterrorism, NATO science for peace and security series., Ed Banoub Joseph, Springer, Dordrecht, The Netherlands, pp 231-244 (2011) ISBN 9048198143 (2011 Springer, Dordrecht, The Netherlands)

Book Chapter

- 13) Luigi Mondello, Rosaria Costa, Danilo Sciarrone, Giovanni Dugo
The Chiral Compound of Citrus Oils
In: Citrus Oils: Composition, Advanced Analytical Techniques, Contaminants, and Biological Activity, Medicinal and Aromatic Plants – Industrial Profiles Series, Eds. Giovanni Dugo and Luigi Mondello. CRC Press, Taylor & Francis Group, Boca Raton, FL, USA, pp. 349-403 (2011) ISBN 978-1-4398-0028-7 (2011 CRC Press, Taylor & Francis Group Boca Raton, FL, USA)
Book Chapter
- 14) Francesco Cacciola, Paola Donato, Luigi Mondello, Paola Dugo
The secrets of red wine - Determination of polyphenols by comprehensive 2D LC with PDA and MS/MS (IT-TOF) detection
LCGC Europe, Applications book 3/2011, 8-9.
Original Research paper
- 15) Paola Donato, Francesco Cacciola, Paola Dugo, Luigi Mondello
The beauty and the health
Comprehensive LC x LC/PDA/IT-TOF of pigments in food
Food Science and Technology, 2011, 25(2), 52-53.
Original Research paper
- 16) Luisa Schipilliti, Paola Dugo, Luca Santi, Giovanni Dugo and Luigi Mondello
Authentication of bergamot essential oil by Gas-Chromatography-Combustion-Isotope Rat Mass Spectrometer (GC-C-IRMS)
J. Essent. Oil Res. **23**, 60-71 (2011)
Original Research paper
- 17) G. Dugo, D. Sciarrone, R. Costa, I. Bonaccorsi, P. Dugo, L. Mondello, L. Santi, Hussein A. Fakhry
Characterization of oils from the fruits, leaves and flowers of the bitter orange tree
J. Essent. Oil Res. **23**, 45-59 (2011)
Original Research paper
- 18) Paola Donato, Francesco Cacciola, Eduardo Sommella, Chiara Fanali, Laura Dugo, Marina Dachà, Pietro Campiglia, Ettore Novellino, Paola Dugo, Luigi Mondello
On-line Comprehensive RPLC x RPLC with Mass Spectrometry Detection for the Analysis of Proteome Samples
Anal. Chem. **83**, 2485-2491 (2011)
Original research paper
- 19) Peter Quinto Tranchida, Giorgia Purcaro, Alessandro Visco, Lanfranco Conte, Peter Dawes, Luigi Mondello
A flexible loop-type flow modulator for comprehensive two dimensional gas chromatography
J. Chromatogr. A, **1218** 3140–3145 (2011)
Original research paper
- 20) Francesco Cacciola, Paola Donato, Luigi Mondello, Paola Dugo
Recent advances in comprehensive two-dimensional liquid chromatography for the

- analysis of natural products
Extreme Chromatography – faster, hotter, smaller, Byrdwell W.C. and Holčapek M. eds.,
AOCS Press, Urbana (IL, USA), 2011, pp. 231-253, ISBN 978-189399766-0
Book Chapter
- 21) G. Purcaro, P.Q. Tranchida, L. Mondello
Comprehensive 2D GC methodologies for the analysis of lipids
Extreme Chromatography – faster, hotter, smaller, Byrdwell W.C. and Holčapek M. eds.,
AOCS Press, Urbana (IL, USA), 2011, pp. 381-430, ISBN 978-189399766-0
Book Chapter
- 22) Paola Donato, Francesco Cacciola, Filomena Cichello, Marina Russo, Paola Dugo, and
Luigi Mondello
Determination of phospholipids in milk samples by means of hydrophobic interaction
liquid chromatography coupled to evaporative light scattering and mass spectrometry
detection.
J. Chromatogr. A, **1218** 6476-6482 (2011)
Original Research Paper
- 23) Miceli, Natalizia; Trovato, Ada; Marino, Andreana; Bellinghieri, Valentina; Melchini,
Antonietta; Dugo, Paola; Cacciola, Francesco; Donato, Paola; Mondello, Luigi; Güvenç,
Ayşegül; De Pasquale, Rita; Taviano, Maria Fernanda
Phenolic composition and biological activities of *Juniperus drupacea* Labill. berries from
Turkey
Food Chem. Toxicol. **49** (2011) 2600-2608.
Original Research Paper
- 24) Dugo P., Cacciola F., Mondello L., Donato P.
“Chapter 9 – Comprehensive two-dimensional liquid chromatography combined with
mass spectrometry” in *Comprehensive chromatography in combination with mass
spectrometry*, L. Mondello Ed., John Wiley & sons Inc., Hoboken, NJ (USA), 2011, pp.
331-390. ISBN 978-0-470-43407-9
Book Chapter
- 25) Dugo P., Cacciola F., Mondello L., Donato P.
“Chapter 10 – Comprehensive two-dimensional liquid chromatography applications” in
Comprehensive chromatography in combination with mass spectrometry, L. Mondello
Ed., John Wiley & sons Inc., Hoboken, NJ (USA), 2011, pp. 391-427. ISBN 978-0-470-
43407-9
Book Chapter
- 26) François I., Sandra P., Sciarrone D., Mondello L.
“Chapter 11 – Other comprehensive chromatography methods” in *Comprehensive
chromatography in combination with mass spectrometry*, L. Mondello Ed., John Wiley &
sons Inc., Hoboken, NJ (USA), 2011, pp. 429-448. ISBN 978-0-470-43407-9
Book Chapter
- 27) I. Bonaccorsi, D. Sciarrone, A. Cotroneo, L. Mondello, P. Dugo, G. Dugo
Enantiomeric distribution of key volatile components in Citrus essential oils
Revista Brasileira de Farmacognosia, 21(5), 841-849, 2011. ISSN 0102-695X
Original research paper

In press

- 1/P P. Donato, F. Cacciola, L. Mondello and P. Dugo
Comprehensive Chromatographic Separations in Proteomics
In press on *J. Chromatogr. A*
- 2/P Bonaccorsi I., Sciarrone D., Schipilliti L., Dugo P., Mondello L., Dugo G.
Multidimensional Enantio-Gas Chromatography/Mass Spectrometry and Gas
Chromatography-Combustion-Isotopic Ratio Mass Spectrometry for the Authenticity
Assessment of lime Essential Oils (*C. aurantifolia* Swingle and *C. latifolia* Tanaka)
In press on *J. Chromatogr. A*
- 3/P I. Bonaccorsi, P. Dugo, L. Mondello, D. Sciarrone, G. Dugo, L. Haro-Guzman
Analytical characterization of industrial essential oils from fruits and leaves of *C.*
aurantifolia Tan and key *latifolia* Swing
In press on JEOR
- 4/P Schipilliti Luisa, Dugo Paola, Dugo Giovanni, Mondello Luigi
Authenticity control on lemon essential oils employing Gas Chromatography-
Combustion-Isotope Ratio Mass Spectrometry (GC-C-IRMS)
In press on *Food Chem*
- 5/P Schipilliti L., Dugo P., Bonaccorsi I., Mondello L.
Headspace-Solid Phase Microextraction (HS-SPME) coupled to Gas Chromatography-
Combustion-Isotope Ratio Mass Spectrometer (GC-C-IRMS) and to enantioselective Gas
Chromatography (es-GC) for strawberry flavoured food quality control
doi:10.1016/j.chroma.2011.07.072

Sent

- 1/S M.P.Germanò, F. Cacciola, P. Donato, P. Dugo, G. Certo, V. D'Angelo, L. Mondello, A.
Rapisarda
Analytical characterization of *Betula pendula* leaves and its potential innovative use in
skin whitening products
Submitted to *Fitoterapia*
- 2/S C. Fanali, L. Dugo, F. Cacciola, M. Beccaria, S. Grasso, M. Dachà, P. Dugo, L. Mondello
Chemical Characterization of Sacha Inchi (*Plukenetia 1 volubilis* L.) Oil
Submitted to *Journal of Agricultural and Food Chemistry*
- 3/S Peter Q. Tranchida, Danilo Sciarrone, Paola Dugo, and Luigi Mondello
Heart-cutting multidimensional gas chromatography: recent evolution, applications, and
future prospects

Submitted to *Anal. Chim. Acta*

- 4/S Ragonese C., Sciarrone D., Dugo P., Dugo G., Mondello L.
Evaluation of an ionic liquid stationary phase in the analysis
of flavour and fragrance compounds.
Submitted to *Analytical Chemistry*