



## Papers

1. 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
2. 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
3. Chiara Fanali, Laura Dugo, Francesco Cacciola, Marco Beccaria, Simone Grasso, Marina Dachà, Paola Dugo and Luigi Mondello.  
Chemical Characterization of Sacha Inchi (*Plukenetia volubilis* L.) Oil.  
1. *Agric. Food Chem.* 59, 13043–13049 (2011). ISSN: 0021-8561 (November 2011, AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036 USA).  
Original Research paper
4. P. Donato, F. Cacciola, F. Cichello, M. Russo, P. Dugo, L. Mondello.  
Determination of phospholipids in milk samples by means of hydrophilic interaction liquid chromatography coupled to evaporative light scattering and mass spectrometry detection.  
1. *Chromatogr. A*, 1218, 6476–6482 (2011). ISSN 0021-9673 (September 2011, Elsevier, B.V., Amsterdam, The Netherlands).  
Original Research paper
5. N. Miceli, A. Trovato, A. Marino, V. Bellinghieri, A. Melchini, P. Dugo, F. Cacciola, P. Donato, L. Mondello, A. Guvenc, R. De Pasquale, M.F. Traviano.  
Phenolic composition and biological activities of *Juniperus drupacea* Labill, berries from Turkey.  
*Food Chem. Toxicol.* 49, 2600–2608 (2011). ISSN 0278-6915. (October 2011, Elsevier, B.V., Amsterdam, The Netherlands).  
Original Research paper
6. P. Donato, F. Cacciola, L. Mondello, P. Dugo.  
Comprehensive chromatographic separations in proteomics.  
1. *Chromatogr. A*, 1218, 8777–8790 (2011). ISSN 0021-9673 (December 2011 Elsevier, B.V., Amsterdam, The Netherlands).  
Review paper

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Email: [chromaleont@chromaleont.it](mailto:chromaleont@chromaleont.it)



1. Peter Q. Tranchida, Danilo Sciarrone, Paola Dugo, and Luigi Mondello.  
Heart-cutting multidimensional gas chromatography: recent evolution, applications, and future prospects.  
Anal. Chim. Acta 716, 66–75 (2012). ISSN 0003-2670. (February 2012, Elsevier, B.V., Amsterdam, The Netherlands).  
Review paper
  
2. Eduardo Sommella, Francesco Cacciola, Paola Donato, Paola Dugo, Pietro Campiglia, and Luigi Mondello.  
Development of an online capillary comprehensive 2D-LC system for the analysis of proteome samples.  
1. Sep. Sci. 35, 530–533 (2012). ISSN 1615-9306. (January 2012, Wiley-VCH, Weinheim, Germany).  
Original Research paper
  
3. Federica Spadaro, Clara Circosta, Rosaria Costa, Francesco Pizzimenti, Dora Rita Palumbo and Francesco Occhiuto.  
Volatile fraction composition and biological activity of lemon oil (*Citrus limon* L. Burm.): Comparative study of oils extracted from conventionally grown and biological fruits.  
J. Essent. Oil Res. 24, 187–193 (2012). (May 2012, Taylor & Francis Group Boca Raton, FL, USA).  
Original research paper
  
1. F. Cacciola, P. Donato, M. Beccarla, P. Dugo, L. Mondello.  
Advances in LC-MS for food analysis.  
LC GC Eur., 5, 15-24 (2012). ISSN 1471-6577. (May 2012, Advanstar Communications, Chester, UK).  
Review paper
  
2. D. Sciarrone, P. Tranchida, P. Dugo, L. Mondello.  
Advances in multidimensional LC-GC for food analysis.  
LC GC Eur., 5, 31-35 (2012). ISSN 1471-6577. (May 2012, Advanstar Communications, Chester, UK).  
Review paper
  
1. Rosaria Costa, Paola Dugo, Luigi Mondello.  
Sampling and Sample Preparation Techniques for the Determination of the Volatile Components of Milk and Dairy Products In: Comprehensive Sampling and Sample Preparation, Volume 4; Pawliszyn, J.; Mondello, L.; Dugo, P.; Eds; Elsevier, Academic Press: Oxford, UK, pp 43–59, 2012. ISBN: 9780123813732.  
Book Chapter



2. Paola Donato, Francesco Cacciola, Peter Quinto Tranchida, Paola Dugo and Luigi Mondello. Mass spectrometry detection in comprehensive liquid chromatography: basic concepts, instrumental aspects, applications and trends. *Mass Spectrom. Rev.*, 31, 523-559 (2012). ISSN: 1098-2787. (March 2012, Wiley-VCH, Weinheim, Germany).  
Review paper
3. Carla Ragonese, Danilo Sciarrone, Peter Quinto Tranchida, Paola Dugo, Luigi Mondello. Use of ionic liquids as stationary phases in hyphenated gas chromatography techniques: a review. *J. Chromatogr. A*, 1255, 130-144 (2012). ISSN 0021-9673 (September 2012, Elsevier, B.V., Amsterdam, The Netherlands).  
Review paper
4. Danilo Sciarrone, Sebastiano Pantò, Carla Ragonese, Peter Quinto Tranchida, Paola Dugo and Luigi Mondello. Increasing the Isolated Quantities and Purities of Volatile Compounds by Using a Triple Deans-Switch Multidimensional Preparative Gas Chromatographic System with an Apolar-Wax-Ionic Liquid Stationary-Phase Combination. *Anal. Chem.* 84, 7092-7098 (2012). ISSN 0003-2700 (July 2012, American Chemical Society, Washington. D.C., USA).  
Original research paper
5. M.P. Germanò, F. Cacciola, P. Donato, P. Dugo, G. Certo, V. D'Angelo, L. Mondello, A. Rapisarda. *Betula pendula* leaves: Polyphenolic characterization and potential innovative use in skin whitening products. *Fitoterapia* 83, 877-882 (2012). ISSN 0367-326X (July 2012, Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
6. Francesco Cacciola, Paola Donato, Daniele Giuffrida, Germana Torre, Paola Dugo, Luigi Mondello. Ultra high pressure in the second dimension of a comprehensive two-dimensional liquid chromatographic system for carotenoid separation in red chili peppers. *J. Chromatogr. A*, 1255 244-251 (2012). ISSN 0021-9673 (September 2012, Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
1. 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). *J. Chromatogr. A*, 1226, 87-95 (2012). ISSN 0021-9673 (February 2012, Elsevier, B.V., Amsterdam, The Netherlands).

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Email: [chromaleont@chromaleont.it](mailto:chromaleont@chromaleont.it)



Original research paper

2. Luigi Mondello, Mariosimone Zoccali, Giorgia Purcaro, Flavio Antonio Franchina, Danilo Sciarrone, Sabrina Moret, Lanfranco Conte, and Peter Quinto Tranchida.  
Determination of saturated-hydrocarbon contamination in baby foods by using on-line liquid-gas chromatography and off-line liquid-comprehensive gas chromatography combined with mass spectrometry.  
1. *Chromatogr. A* 1259, 221-226 (2012). ISSN 0021-9673 (October 2012 Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
3. Paola Dugo, Marco Beccaria, Nermeen Fawzy, Paola Donato, Francesco Cacciola, Luigi Mondello.  
Mass spectrometric elucidation of triacylglycerol content of Brevoortia tyrannus (menhaden) oil using non-aqueous reversed-phase liquid chromatography under ultra high pressure conditions.  
1. *Chromatogr. A* 1259, 227-236 (2012). ISSN 0021-9673 (October 2012 Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
4. Luisa Schipilliti, Ivana Bonaccorsi, Danilo Sciarrone, Laura Dugo, Luigi Mondello, Giovanni Dugo.  
Determination of petitgrain oils landmark parameters by using gas chromatography-combustion-isotope ratio mass spectrometry and enantioselective multidimensional gas chromatography.  
*Anal Bioanal Chem* 405 (2013) 679-690. ISSN 1618-2650. (January 2013, Springer, New York, USA).  
Original research paper
5. Paola Dugo, Nermeen Fawzy, Filomena Cichello, Francesco Cacciola, Paola Donato and Luigi Mondello.  
Stop-flow comprehensive two-dimensional liquid chromatography combined with mass spectrometric detection for phospholipid analysis.  
1. *Chromatogr. A* 1278, 46-53 (2013). ISSN 0021-9673 (February 2013 Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
1. Peter Quinto Tranchida, Flavio Antonio Franchina, Mariosimone Zoccali, Sebastiano Pantò, Danilo Sciarrone, Paola Dugo, Luigi Mondello.  
Untargeted And Targeted Comprehensive Two-Dimensional GC Analysis Using A Novel Unified High-Speed Triple Quadrupole Mass Spectrometer.  
*Chromatogr. A* 1278 (2013) 153-159. ISSN 0021-9673 (February 2013 Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper



1. Marina Russo, Filomena Cichello, Carla Ragonese, Paola Donato, Francesco Cacciola, Paola Dugo, Luigi Mondello.  
Profiling and quantitative determination of polar lipids in milk by hydrophilic interaction liquid chromatography coupled to evaporative-light scattering and mass spectrometry detection.  
Anal. Bioanal. Chem. 405, 4617-4626 (2013). ISSN 1618-2650. (January 2013, Springer, New York, USA).  
Original research paper
2. Maria Fernanda Taviano, Andreana Marino, Ada Trovato, Valentina Bellinghieri, Antonietta Melchini, Paola Dugo, Francesco Cacciola, Paola Donato, Luigi Mondello, Ayşegül Güvenç, Rita De Pasquale, Natalizia Miceli.  
Juniperus oxycedrus L. subsp. oxycedrus and Juniperus oxycedrus L. subsp. macrocarpa (Sibth. & Sm.) Ball. "berries": phenolic profile and biological activities.  
Food Chem. Toxicol. 58, 22-29 (2013). ISSN 0278-6915. (August 2013 Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
3. Danilo Sciarrone, Sebastiano Panto, Archimede Rotondo, Laura Tedone, Peter Quinto Tranchida, Paola Dugo and Luigi Mondello.  
Rapid collection and identification of a novel component from Clausena lansium Skeels leaves by means of three-dimensional preparative GC and NMR/ FTIR/MS analysis.  
Anal. Chim. Acta 785 (2013) 119-125. ISSN 0003-2670. (June 2013, Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
4. M.P. Germanò, F. Cacciola, P. Donato, P. Dugo, G. Certo, V. D'Angelo, L. Mondello, A. Rapisarda.  
Betula pendula Roth leaves: gastroprotective effects of an HPLC-fingerprinted methanolic extract.  
Nat. Prod. Res. 27, 1569-1575 (2013). ISSN 1478-6419 (September 2013, Taylor and Francis group, London, United Kingdom)  
Original research paper
1. Peter Q. Tranchida, Flavio A. Franchina, Mariosimone Zoccali, Ivana Bonaccorsi, Francesco Cacciola, Luigi Mondello.  
1. direct sensitivity comparison between flow-modulated comprehensive two-dimensional and one-dimensional gas chromatography in untargeted and targeted mass spectrometry-based experiments.  
1. Sep. Sci. 36, 2746-2752 (2013). ISSN 1615-9306. (July 2013, Wiley-VCH, Weinheim, Germany).  
Original research paper

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1. Peter Q. Tranchida, Paola Donato, Francesco Cacciola, Marco Beccaria, Paola Dugo, Luigi Mondello.  
Potentials Of Comprehensive Chromatography In Food Analysis.  
Trends Anal. Chem. 52, 186-205 (2013). ISSN 0165-9936 (December 2013, Elsevier, B.V., Amsterdam, The Netherlands).  
Review paper
2. Carla Ragonese, Laura Tedone, Marco Beccaria, Germana Torre, Francesco Cacciola, Paola Dugo, Luigi Mondello.  
Characterization of lipid fraction of marine macroalgae from South Italy by means of chromatography techniques coupled to mass spectrometry.  
Food Chem. 145, 932-940 (2014). ISSN: 0308-8146 (February 2014, Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
3. Rosaria Costa, Marina Russo, Selenia De Grazia, Elisa Grasso, Paola Dugo, Luigi Mondello  
1. thorough investigation on the oxygen heterocyclic fraction of lime (Citrus aurantifolia (Christm) Swingle) juice.  
1. Sep. Sci. 37, 792-797 (2014). ISSN 1615-9306. (March 2014, Wiley-VCH, Weinheim, Germany).  
Original research paper
1. Danilo Sciarrone, Sebastiano Pantò, Peter Quinto Tranchida, Paola Dugo and Luigi Mondello.  
Rapid Isolation of High Solute Amounts by Using a Totally Orthogonal On-line Four-Dimensional Preparative System: Normal Phase-Liquid Chromatography Coupled to Methyl Siloxane-Ionic Liquid-Wax Phase Gas Chromatography.  
Anal. Chem. 86, 4295-4301 (2014). ISSN 0003-2700 (April 2014, American Chemical Society, Washington. D.C., USA).  
Original research paper
1. Paola Donato, Francesco Cacciola, Francesca Rigano, Daniele Giuffrida, Paola Dugo, Luigi Mondello.  
Comprehensive two-dimensional liquid chromatography coupled to triple quadrupole mass spectrometry: application to a challenging food case-study.  
LC GC N AM. 5, 42-47 (2014). ISSN 1527-5949. (May 2014, Advanstar Communications, Duluth, MN, USA).  
Original research paper
2. Peter Q. Tranchida, Flavio A. Franchina, Simona Salivo, Marina Russo, Paola Dugo and Luigi Mondello.  
Flow-modulated Comprehensive Two-dimensional Gas Chromatography-Triple Quadrupole Mass Spectrometry Elucidation of the Fatty Acids and Unsaponifiable Constituents of Oil Derived from Lemon Seeds, A Food-Industry Waste Producty.

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LC GC N AM. 5, 24-29 (2014). ISSN 1527-5949. (May 2014, Advanstar Communications, Duluth, MN, USA).

Original research paper

3. Gabriel Mazzi Leme, Francesco Cacciola, Paola Donato, Alberto Jose Cavalheiro, Paola Dugo, Luigi Mondello.  
Continuous vs. segmented second dimension system gradients for comprehensive two-dimensional liquid chromatography of sugarcane (*Saccharum* spp.).  
*Anal. Bioanal. Chem.* 406, 4315-4324 (2014). ISSN 1618-2650. (July 2014, Springer, New York, USA).  
Original research paper
4. Marco Beccaria, Giuseppe Sullini, Francesco Cacciola, Paola Donato, Paola Dugo, Luigi Mondello.  
High performance characterization of triacylglycerols in milk and milk-related samples by ultra high pressure liquid chromatography and mass spectrometry.  
*J. Chromatogr. A* 1360, 172-187 (2014). ISSN 0021-9673. (September 2014 Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
1. Paola Donato, Francesco Cacciola, Francesca Rigano, Daniele Giuffrida, Paola Dugo, Luigi Mondello.  
Comprehensive two-dimensional liquid chromatography coupled to triple quadrupole mass spectrometry: application to a challenging food case-study.  
*LC GC Eur.* 9, 28-32 (2014). ISSN 1471-6577. (September 2014, Advanstar Communications, Chester, UK).  
Original research paper
2. Laura Tedone, Rosaria Costa, Selenia De Grazia, Salvatore Ragusa and Luigi Mondello. Monodimensional (GC-FID and GC-MS) and Comprehensive Two-dimensional Gas Chromatography for the Assessment of Volatiles and Fatty Acids from *Ruta chalepensis* Aerial Parts.  
*Phytochem. Anal.* 25, 468-475 (2014). ISSN 1099-1565. (September/October 2014, Wiley-VCH, Weinheim, Germany).  
Original research paper
3. Peter Q. Tranchida, Flavio A. Franchina, Paola Dugo and Luigi Mondello.  
Use of greatly-reduced gas flows in flow-modulated comprehensive two-dimensional gas chromatography- mass spectrometry.  
*J. Chromatogr. A* 1359, 271-276 (2014). ISSN 0021-9673 (October 2014 Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
4. Francesco Cacciola, Marco Beccaria, Paola Donato, Luigi Mondello, Paola Dugo.  
**COMBINING ORTHOGONAL COMPREHENSIVE TWO-DIMENSIONAL LIQUID CHROMATOGRAPHY METHODS IN FOOD ANALYSIS LC-GC.**

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Eur. 11, 163-170 (2014). ISSN 1471-6577. (November 2014, Advanstar Communications, Chester, UK).

Review paper

1. Debora Tomasini, Francesco Cacciola, Francesca Rigano, Danilo Sciarrone, Paola Donato, Marco Beccaria, Elina Bastos Caramao, Paola Dugo, Luigi Mondello. Complementary analytical liquid chromatography methods for the characterization of aqueous phase from pyrolysis of lignocellulosic biomasses. Anal. Chem. 86, 11255-11262 (2014). ISSN 0003-2700 (November 2014, American Chemical Society, Washington. D.C., USA).  
Original research paper
1. P. Tranchida, F. Franchina, P. Dugo, L. Mondello. FLOW-MODULATION LOW-PRESSURE COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY. J. Chromatogr. A 1372, 236-244 (2014). ISSN 0021-9673 (December 2014 Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
2. Salivo, S., Beccaria, M., Sullini, G., Tranquida P.Q., Dugo, P., Mondello, L. Analysis of human plasma lipids by using comprehensive two-dimensional gas chromatography with dual detection and with the support of high-resolution time-of-flight mass spectrometry for structural elucidation. Journal of Separation Science, 2015, 38 (2), 267-275. ISSN 1615-9306. (January 2015, Wiley-VCH, Weinheim, Germany).  
Original research paper
1. Marina Russo, Ivana Bonaccorsi, Veronica Inferrera, Paola Dugo, and Luigi Mondello. Underestimated sources of flavonoids, limonoids and dietary fiber: availability in orange's by-products. 1. Funct. Food 12 (2015) 150-157. ISSN: 1756-4646. (January 2015 Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
2. Meriem Mokhtar, Jan Soukup, Paola Donato, Francesco Cacciola, Paola Dugo, Ali Riazi, Pavel Jandera, Luigi Mondello. Determination of the polyphenolic content of Capsicum annum L. by liquid chromatography coupled to photodiode array and mass spectrometry detection and evaluation of its biological activity. 1. Sep. Sci. 38 (2015) 171-178. ISSN 1615-9306. (January 2015, Wiley-VCH, Weinheim, Germany).  
Original research paper
3. S. Salivo, M. Beccaria, G. Sullini, P.Q. Tranchida, P. Dugo, L. Mondello.

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Analysis of human plasma lipids by using comprehensive two-dimensional gas chromatography with dual detection and with the support of high-resolution time-of-flight mass spectrometry for structural elucidation.

J. Sep. Sci. 37 (2015) 267-275. ISSN 1615-9306. (January 2015, Wiley-VCH, Weinheim, Germany).

Original research paper

4. Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello.  
The on-line combination of high performance liquid chromatography with comprehensive two-dimensional gas chromatography-triple quadrupole mass spectrometry: a proof of principle study.  
Anal. Chem. 87 (2015) 1911-1918. ISSN 0003-2700 (February 2015, American Chemical Society, Washington. D.C., USA).  
Original research paper
1. R. Costa, C. Fanali, G. Pennazza, L. Tedone, L. Dugo, M. Santonico, D. Sciarrone, F. Cacciola, L. Cucchiari, M. Dach and L. Mondello.  
Screening of volatile compounds composition of white truffle during storage by GCxGC-(FID/MS) and gas sensor array analyses.  
LWT-Food Sci. Technol. 60 (2015) 905-913. ISSN 0023-6438 (March 2015, Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
2. F. A. Franchina, M. E. Machado, P. Q. Tranchida, C. Alcaraz Zini, E. Bastos Caramao, L. Mondello.  
Determination of aromatic sulphur compounds in heavy gas oil by using flow-modulated low-pressure comprehensive two-dimensional gas chromatography-triple quadrupole mass spectrometry.  
J. Chromatogr. A 387 (2015) 86-94. ISSN 0021-9673. (March 2015, Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
3. Peter Q. Tranchida, Simona Salivo, Flavio A. Franchina, Luigi Mondello.  
Flow-modulated comprehensive two-dimensional gas-chromatography combined with a novel high resolution time-of-flight mass spectrometer: proof-of-principle study.  
Anal. Chem. 87 (2015) 2925-2930. ISSN 0003-2700 (March 2015, American Chemical Society, Washington. D.C., USA).  
Original research paper
1. Cacciola F, Russo M, Beccaria M, Donato P, Farnetti S, Dugo P, and Mondello L.  
Comprehensive Two-dimensional Liquid Chromatography Methods for Analysis of Polyphenols in Food Samples.  
Austin Chromatogr. 2(1) (2015):1028.  
Review

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Email: [chromaleont@chromaleont.it](mailto:chromaleont@chromaleont.it)



1. Rosaria Costa, Marco Beccaria, Elisa Grasso, Ambrogina Albergamo, Marianna Oteri, Paola Dugo, Salvatore Fasulo, Luigi Mondello.  
Sample preparation techniques coupled to advanced chromatographic methods for marine organisms investigation.  
Anal. Chim. Acta 875 (2015) 41-53. ISSN 0003-2670. (May 2015, Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
2. D. Giuffrida, P. Dugo, P. Donato, F. Cacciola, E. Murillo.  
Study of the carotenoids profile in Membrillo, Guanabana toreta, Jobo and Mamey fruits Fruits 70 (2015) 163-172. ISSN: 0248-1294. (June 2015, Cambridge University Press, Cambridge, United Kingdom).  
Original research paper
3. Francesco Cacciola, Francesca Rigano, Danilo Sciarrone, Paola Donato, Marco Beccaria, Paola Dugo, Luigi Mondello.  
Comprehensive two-dimeliquid chromatography: characterization of aqueous phase from pyrolysis of lignocellulosic biomasses.  
Chrom+Food Forum 06/2015 (M. Dellert-Ditter).  
Original research paper
4. Marco Beccaria, Rosaria Costa, Giuseppe Sullini, Elisa Grasso, Francesco Cacciola, Paola Dugo and Luigi Mondello.  
Determination of the triacylglycerol fraction in fish oil by comprehensive liquid chromatography techniques with the support of gas chromatography and mass spectrometry Anal. Bioanal. Chem. 407 (2015) 5211-5225. ISSN 1618-2650. (July 2015, Springer, New York, USA).  
Original research paper
5. Marina Russo, Ivana Bonaccorsi, Rosaria Costa, Paola Dugo, and Luigi Mondello.  
Reduced Time HPLC Analyses for Fast Quality Control of Citrus Essential Oils.  
J. Essent. Oil Res. 27 (2015) 307-315. ISSN 2163-8152. (July 2015, Taylor & Francis Group Boca Raton, FL, USA).  
Original research paper
6. Paola Donato, Francesco Cacciola, Marco Beccaria, Paola Dugo and Luigi Mondello.  
Lipidomics (Chapter 8) in Advanced MAss Spectrometry for Food Safety and Quality. (Comprehensive Analytical Chemistry, 1st Ed.) Vol. 68, 395-439. Ed. Yolanda Picò. ISBN-13 978-0-444-633408 (Elsevier, B.V., Amsterdam, The Netherlands).  
Book chapter
1. Flavio A. Franchina, Mariarosa Maimone, Danilo Sciarrone, Giorgia Purcaro, Peter Q. Tranchida and Luigi Mondello.  
Evaluation of a novel helium ionization detector within the context of (low-)flow modulation comprehensive two-diemnsional gas chromatography.

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- J. Chromatogr. A 1402 (2015) 102-109. ISSN 0021-9673. (July 2015, American Chemical Society, Washington. D.C., USA).  
Original research paper
2. Danilo Sciarrone, Sebastiano Pantò, Francesco Cacciola, Rosaria Costa, Paola Dugo and Luigi Mondello.  
Advanced preparative techniques for the collection of pure components from essential oils. Nat. Vol. Essent. Oils 2 (2015) 1-15. ISSN: 2148-9367 (July 2015, Badebio Ltd., Turkey). Review
  3. Laura Barp, Giorgia Purcaro, Flavio A. Franchina, Mariosimone Zoccali, Danilo Sciarrone, Peter Q. Tranchida, Luigi Mondello.  
Determination of phthalate esters in vegetable oils using direct immersion solid phase microextraction and fast gas chromatography coupled with triple quadrupole mass spectrometry.  
Anal. Chim. Acta 887 (2015) 237-244. ISSN 0003-2670. (August 2015, Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
  4. Danilo Sciarrone, Sebastiano Pantò, Carla Ragonese, Paola Dugo and Luigi Mondello Evolution and current status of preparative gas chromatography as green sample preparation technique.  
TRAC-Trends Anal. Chem 71 (2015) 65-73. ISSN 0165-9936 (September 2015 Elsevier, B.V., Amsterdam, The Netherlands).  
Review
  1. Peter Q. Tranchida, Mariarosa Maimone, Giorgia Purcaro, Paola Dugo and Luigi Mondello The penetration of green sample-preparation techniques in the field of comprehensive two-dimensional gas chromatography.  
TRAC-Trends Anal. Chem 71 (2015) 74-84. ISSN 0165-9936 (September 2015. Elsevier, B.V., Amsterdam, The Netherlands).  
Review
  1. Chiara Fanali, Marco Beccaria, Simona Salivo, Peter Tranchida, Giusy Tripodo, Sara Farnetti, Laura Dugo, Paola Dugo, Luigi Mondello.  
Lipids characterization of Quinoa (*Chenopodium quinoa*) seed by comprehensive 2D GC-FID/MS and non-aqueous reversed phase LC-APCI-MS analyses.  
1. Sep. Sci. 38 (2015) 3151-3160. ISSN 1615-9306. (September 2015, Wiley-VCH, Weinheim, Germany).  
Original research paper
  2. L. Schipilliti, I. Bonaccorsi, A. Cotroneo, P. Dugo, L. Mondello.  
Carbone Isotope ratio of Selected Volatiles in *C. sinensis* and in orange flavoured food J. Agric. Food Sci. 95 (2015) 2944-2950. ISSN 1097-0010 (October 2015, Wiley-VCH, Weinheim, Germany).

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Email: [chromaleont@chromaleont.it](mailto:chromaleont@chromaleont.it)



Original research paper

3. Sebastiano Panto, Danilo Sciarrone, Mariarosa Maimone, Carla Ragonese, Salvatore Giofre, Paola Donato, Sara Farnetti, Luigi Mondello.  
Performance Evaluation of a Versatile Multidimensional Chromatographic Preparative System Exploiting an on-line Combination of Polyethylene Glycol/poly(5% diphenyl/95% dimethylsiloxane), Ionic Liquid and  $\beta$ -cyclodextrin Stationary Phases.  
1. *Chromatogr. A* 1417 (2015) 96-103. ISSN 0021-9673. (October 2015, American Chemical Society, Washington. D.C., USA).  
Original research paper
4. Mariosimone Zoccali, Ivana L. Bonaccorsi, Peter Q. Tranchida, Paola Dugo, Luigi Mondello and Giovanni Dugo.  
Analysis of the sesquiterpene fraction Citrus essential oils by using off-line combination of high performance liquid chromatography and gas chromatography based methods: a comparative study.  
*Flav. Frag. J.* 30 (2015) 411-422. ISSN 0882-5734 (November 2015, John Wiley & Sons LTD, Devon, England, UK).  
Original research paper
5. Marina Russo, Paola Dugo, Stefania Marzocco, Veronica Inferrera, Luigi Mondello.  
Multidimensional Preparative Liquid Chromatography System for Isolation of Flavonoids in Bergamot Juice.  
1. *Sep. Sci.* 38 (2016) 567-575, ISSN 1615-9306. (January 2016, Wiley-VCH, Weinheim, Germany).  
Original paper
1. Rosaria Costa, Salvatore Ragusa, Marina Russo, Giovanna Certo, Flavio A. Franchina, Antonio Zantotto, Elisa Grasso, Luigi Mondello, Maria Paola Germano.  
Phytochemical screening of *Artemisia arborescens* L. by means of advanced chromatographic techniques for identification of health-promoting components.  
1. *Pharm. Biomed. Anal.* 117 (2016) 499-509. ISSN 0731-7085 (January 2016, Elsevier, Amsterdam, The Netherlands).  
Original research paper
2. Marina Russo, Adriana Arigo, Maria Luisa Calabro, Paola Dugo, and Luigi Mondello.  
Bergamot (*Citrus bergamia* Risso) as a source of nutraceuticals: limonoids and flavonoids.  
*J. Funct. Food* 20 (2016) 10-19. ISSN: 1756-4646. (January 2016, Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
3. Peter Q. Tranchida, Giorgia Purcaro, Mariarosa Maimone and Luigi Mondello.



The impact of comprehensive two-dimensional gas chromatography-mass spectrometry on food analysis.

1. Sep. Sci. 39 (2016) 149-161. ISSN 1615-9306. (January 2016, Wiley-VCH, Weinheim, Germany).

Review

4. Flavio A. Franchina, Mariarosa Maimone, Luigi Mondello  
Flow-Modulation Comprehensive 2D GC/MS for the Determination of Allergens in Fragrances  
Supelco Reporter 33.4 (2016) 17-18. (February 2016).  
Research article
5. Giorgia Purcaro, Laura Barp, and Luigi Mondello.  
Development of a Method for Analysis of Phthalate Esters in Vegetable Oils using Direct-Immersion SPME followed by Fast GC with Triple Quadrupole MS Detection.  
Supelco Reporter 33.4 (2016) 3-6. (February 2016).  
Original research paper
6. Marco Beccaria and Luigi Mondello.  
Identification and Quantification of Triacylglycerols in Expired Dairy Products and Seafood Using NARP-HPLC-APCI-MS.  
Supelco Reporter 33.4 (2016) 17-18. (February 2016).  
Original research paper
7. Marco Beccaria and Luigi Mondello.  
Development of an Off-line LCXLC/MS Method for Identification of Triacylglycerols (TAGs) in Marine Organisms using Different Extraction Procedures.  
Supelco Reporter 33.4 (2016) 7-12 (February 2016).  
Original research paper
8. Carla Ragonese, Danilo Sciarrone, Elisa Grasso, Paola Dugo and Luigi Mondello.  
Enhanced resolution of Mentha piperita volatile fraction using a novel mediumpolarity ionic liquid GC stationary phase.  
1. Sep. Sci. 39 (2016) 537-544. ISSN 1615-9306. (February 2016, Wiley-VCH, Weinheim, Germany).  
Original research paper
1. Mariosimone Zoccali, Laura Barp, Marco Beccaria, Danilo Sciarrone, Giorgia Purcaro, Luigi Mondello.  
Improvement in mineral oil saturated and aromatic hydrocarbons determination in edible oil by liquid-liquid-gas chromatography with dual detection.  
Sep. Sci. 39 (2016) 623-631. ISSN 1615-9306. (February 2016, Wiley-VCH, Weinheim, Germany).  
Original research paper

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Email: [chromaleont@chromaleont.it](mailto:chromaleont@chromaleont.it)



2. Peter Q. Tranchida, Mariaros Maimone, Flavio A. Franchina, Thiago Rodrigues Bjerck, Giorgia Purcaro and Luigi Mondello.  
Four-stage (low-) flow modulation comprehensive gas chromatography-quadrupole mass spectrometry for the determination of recently-highlighted cosmetic allergens.  
1. *Chromatogr. A* 1439 (2016) 144-151. ISSN 0021-9673. (March 2016, American Chemical Society, Washington, D.C., USA)  
Original research paper
  
3. Flavio A. Franchina, Mariaros Maimone, Peter Q. Tranchida, Luigi Mondello.  
Flow modulation comprehensive two-dimensional gas chromatography-mass spectrometry using  $\approx 4 \text{ ml min}^{-1}$  gas flows.  
1. *Chromatogr. A* 1441 (2016) 134-139. ISSN 0021-9673. (April 2016, American Chemical Society, Washington, D.C., USA).  
Original research paper
  
1. Francesca Rigano, Ambrogina Albergamo, Danilo Sciarrone, Marco Beccaria, Giorgia Purcaro, Luigi Mondello.  
Nano Liquid Chromatography Directly Coupled to Electron Ionization Mass Spectrometry for Free Fatty Acids Elucidation in Mussel.  
*Anal. Chem.* 88 (2016) 4021-4028. ISSN 0003-2700 (April 2016, American Chemical Society, Washington, D.C., USA).  
Original research paper
  
2. Flavio A. Franchina, Giorgia Purcaro, Mariaros Maimone, Peter Q. Tranchida, Luigi Mondello.  
Recent evolution of flow-modulation comprehensive gas chromatography within the context of mass spectrometry hyphenation.  
*Chem. Today*, 34, 6-10 (2016). ISSN 0392-839X (March/April, 2016, Teknoscienze, Milan, Italy).  
Review
  
3. Daniele Giuffrida, Nuthathai Sutthiwong, Paola Dugo, Paola Donato, Francesco Cacciola, Emmanuelle Girard-Valenciennes, Yves Le Mao, Christophe Monnet, Mireille Fouillaud, Yanis Caro, Laurent Dufossé.  
Characterisation of the C50 carotenoids produced by strains of the cheese-ripening bacterium *Arthrobacter arilaitensis*.  
*International Dairy Journal*, 55, 10-16 (2016). ISSN: 0958-6946. (April 2016, Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
  
4. Meriem Mokhtar, Marina Russo, Francesco Cacciola, Paola Donato, Daniele Giuffrida, Ali Riazi, Sara Farnetti, Paola Dugo, Luigi Mondello.  
Capsaicinoids and carotenoids in *Capsicum annuum*: analytical characterization and evaluation of its biological properties.





Food Anal. Meth. 9 (2016) 1381-1390. ISSN 1618-2650. (May 2016, Springer, New York, USA).

Original research paper

5. Sofiane Habibatni, Natalizia Miceli, Giovanna Ginestra, Zineb Maameri, Carlo Bisignano, Francesco Cacciola, Margita Utczas, Luigi Mondello, Sirajudheen Anwar, Samir Benayache, Damila Atrouz, Fadila Benayache, Maria Fernanda Taviano. Antioxidant and antibacterial activity of extract and phases from stems of *Spartium junceum* L. growing in Algeria. Int. J. Phytomedicine 8 (2016) 37-46. ISSN 0975-0185. (May 2016, Advanced Research Journals, USA).  
Original research paper
1. Francesco Cacciola, Daniele Giuffrida, Margita Utczas, Domenica Mangraviti, Marco Beccaria, Paola Donato, Ivana Bonaccorsi, Paola Dugo, Luigi Mondello. Analysis of the carotenoid composition and stability in various overripe fruits by comprehensive two-dimensional liquid chromatography. LC-GC Eur. 5 (2016) 252-256. ISSN 1471-6577. (May 2016, Advanstar Communications, Chester, UK).  
Original research paper
2. Natalizia Miceli, Luigina Pasqualina Buongiorno, Maria Grazia Celi, Francesco Cacciola, Paola Dugo, Paola Donato, Luigi Mondello, Irene Bonaccorsi, M. F. Taviano. Role of the flavonoid-rich fraction in the antioxidant and cytotoxic activities of *Bauhinia forficata* Link. (Fabaceae) leaves extract. Nat. Prod. Res. 30 (2016) 1229-1239. ISSN 1478-6419 (May 2016 Taylor and Francis group, London, United Kingdom).  
Original research paper
3. Marina Russo, Francesca Rigano, Adriana Arigò, Danilo Sciarrone, Maria Luisa Calabrò, Paola Dugo, Luigi Mondello. Rapid isolation, reliable characterization, and water solubility improvement of polymethoxyflavones from cold-pressed mandarin essential oil. J. Sep. Sci. 39 (2016) 2018-2027. ISSN 1615-9306. (June 2016, Wiley-VCH, Weinheim, Germany).  
Original research paper
4. P. Tranchida, F. Franchina, P. Dugo, L. Mondello. Comprehensive two-dimensional gas chromatography-mass spectrometry. Mass Spectrom. Rev. 35 (2016) 524-534. ISSN: 1098-2787. (July-August 2016 Wiley-VCH, Weinheim, Germany)  
Review
5. Francesco Cacciola, Marco Beccaria, Marianna Oteri, Margita Utczas, Daniele Giuffrida, Nicola Cicero, Giacomo Dugo, Paola Dugo, Luigi Mondello.

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- Chemical characterization of old cabbage (*Brassica Oleracea* L. var. *Acephala*) seed oil by liquid chromatography and different spectroscopic detection system.  
Nat. Prod. Res. 30 (2016) 1646-1654. ISSN 1478-6419. (July 2016, Taylor and Francis group, London, United Kingdom).  
Original research paper
6. Chiara Fanali, Maria Giovanna Belluomo, Marco Cirilli, Valerio Cristofori, Maurizio Zecchini, Francesco Cacciola, Marina Russo, Rosario Muleo, Laura Dugo.  
Antioxidant activity evaluation and HPLC-photodiode array/MS polyphenols analysis of pomegranate juice from selected italian cultivars: A comparative study.  
Electrophoresis 2016, 37, 1947-1955.  
Original research paper
7. Paola Donato, Francesca Rigano, Francesco Cacciola, Mark Schure, Sara Farnetti, Marina Russo, Paola Dugo, Luigi Mondello.  
Comprehensive Two-Dimensional Liquid Chromatography-Tandem Mass Spectrometry for the Simultaneous Determination of Wine Polyphenols and Target Contaminants.  
J. Chromatogr. A 1458 (2016) 54-62. ISSN 0021-9673. (August 2016, Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
8. Francesco Cacciola, Daniele Giuffrida, Margita Utczas, Domenica Mangraviti, Paola Dugo, Dania Menchaca, Enrique Murillo, Luigi Mondello.  
Application of comprehensive two-dimensional liquid chromatography for carotenoid analysis in red mamey (*Pouteria sapote*) fruit.  
Food Anal. Meth. 9 (2016) 2335-2341. ISSN 1936-9751. (August 2016, Springer, New York, USA).  
Original research paper
9. Filippo Giarratana, Daniele Muscolino, Carla Ragonese, Chiara Beninati, Danilo Sciarrone, Graziella Ziino, Luigi Mondello, Alessandro Giuffrida, Antonio Panebianco.  
Antimicrobial activity of thyme and rosemary essential oils against *Listeria monocytogens* in Italian mortadella packaged in modified atmosphere.  
J.Essent. Oil Res. 28 (2016) 467-474. (August 2016, Taylor and Francis group, London, United Kingdom).  
Original research paper
10. Mhammed Aguenouz, Marco Beccaria, Giorgia Purcaro, Marianna Oteri, Giuseppe Micalizzi, Olimpia Musumesci, Annmaria Ciranni, Rosa Maria Di Giorgio, Antonio Toscano, Paola Dugo, Luigi Mondello.  
Analysis of lipid profile in lipid storage myopathys.  
Chromatogr. B 1029-1030 (2016) 157-168. ISSN 1570-0232. (September 2016, Elsevier, B.V., Amsterdam, The Netherlands).

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Original research paper

11. Ivana Bonaccorsi, Francesco Cacciola, Margita Utczas, Veronica Inferrera, Daniele Giuffrida, Paola Donato, Paola Dugo, Luigi Mondello.  
Characterization of the pigment fraction in Sweet Bell Peppers (*Capsicum annum* L.) harvested at green and overripe yellow and red stages by offline multidimensional convergence chromatography/liquid chromatography-mass spectrometry.  
1. Sep. Sci. 39 (2016) 3281-3291. ISSN 1615-306. (September 2016, Wiley-VCH, Weinheim, Germany).  
Original research paper
12. Giorgia Purcaro, Mariosimone Zoccali, Flavio A. Franchina, Peter Tranchida, L. Mondello. MOSH and MOAH.  
Chrom+Food Forum 05/2016 (M. Dellert-Ditter).  
Research article
13. Ambrogina Albergamo, Francesca Rigano, Giorgia Purcaro, Angela Mauceri, Salvatore Fasulo and Luigi Mondello.  
Free Fatty Acid Profiling of Marine Sentinels by NanoLC-EI-MS for the Assessment of the Environmental Pollution Effects.  
Sci. Tot. Environ. 571 (2016) 955-962. ISSN: 0048-9697 (November 2016, Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
14. Marco Beccaria, Marianna Oteri, Giuseppe Micalizzi, Ivana Lidia Bonaccorsi, Giorgia Purcaro, Paola Dugo, Luigi Mondello.  
Reuse of dairy product: evaluation of the lipid profile evolution during and after their shelf-life.  
Food Anal. Meth. 9 (2016) 3143-3154. ISSN 1618-2650. (November 2016, Springer, New York, USA).  
Original research paper
15. Danilo Sciarrone, Sebastiano Pantò, Paola Donato and Luigi Mondello.  
Improving the Productivity of a Multidimensional Chromatographic Preparative System by Collecting Pure Chemicals after Each Chromatographic Dimension.  
J. Chromatogr. A 1475 (2016) 80-85. ISSN 0021-9673. (December 2016, Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
16. Donato P., Inferrera V., Sciarrone D., Mondello L.  
Supercritical fluid chromatography for lipid analysis in foodstuffs.  
Journal of Separation Science 2017, 40 (1), 361-382. ISSN 1615-306. (January 2017, Wiley-VCH, Weinheim, Germany).  
Original research paper

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Email: [chromaleont@chromaleont.it](mailto:chromaleont@chromaleont.it)



17. Cacciola F., Farnetti S., Dugo P., Marriott P.J., Mondello L.  
Comprehensive two-dimensional liquid chromatography for polyphenol analysis in foodstuffs.  
Journal of Separation Science, 2017, 40 (1), 7-24. ISSN 1615-306. (January 2017, Wiley-VCH, Weinheim, Germany).  
Original research paper
18. Francesco Cacciola, Paola Donato, Danilo Sciarrone, Paola Dugo, Luigi Mondello.  
Comprehensive liquid chromatography and other liquid-based comprehensive techniques coupled to mass spectrometry in food analysis.  
Anal. Chem. 89 (2017) 414-429. ISSN 0003-2700 (January 2017, American Chemical Society, Washington. D.C., USA).  
Review article
19. Gomes, T., Albergamo, A., Costa, R., Mondello, L., Dugo, G.  
Potential use of proteomics in shellfish aquaculture: From assessment of environmental toxicity to evaluation of seafood quality and safety.  
Current Organic Chemistry, 2017, 21 (5), 402-425. ISSN: 1385-2728 (February 2017, Bentham Science Publishers, Sharjah, United Arab Emirates).  
Original research paper
20. R. Costa, A. Albergamo, M. Piparo, G. Zacccone, G. Capillo, A. Manganaro, P. Dugo, L. Mondello.  
Multidimensional gas chromatographic techniques applied to the analysis of lipids from wild-caught and farmed marine species.  
Eur. J. Lip. Sci. Technol., 119 ,(2017), 1600043. ISSN: 1438-9312. (February 2017, Bentham Science Publishers, Sharjah, United Arab Emirates).  
Research article
21. Luisa Schipilliti, Giorgia Purcaro, Ivana Lidia Bonaccorsi, Luigi Mondello.  
Head-space solid-phase microextraction coupled to gas chromatography isotope ratio mass spectrometry for authenticity evaluation of vanilla flavour in food.  
Flavour Fragr. J., 2012, 27, 98-123. ISSN 0882-5734 (March 2017, John Wiley & Sons LTD, Devon, England, UK).  
Research article
22. Schipilliti L., Bonaccorsi I.L., Mondello L.  
Characterization of natural vanilla flavour in foodstuff by HS-SPME and GC-C-IRMS  
Flavour and Fragrance Journal, 32(2), pp. 85-91, 2017. ISSN: 08825734. (March 2017).  
Original research paper
23. Barp, L., Franchina, F.A., Purcaro, G., Tranchida, P.Q., Mondello, L.  
In-pipette solid-phase extraction prior to flow-modulation comprehensive two-dimensional gas chromatography with dual detection for the determination of

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minor components in vegetable oils. ISSN 0039-9140. (April 2017, Elsevier, B.V., Amsterdam, The Netherlands).

Talanta, 2017, 165, 598-603.

Original research paper

24. Mariosimone Zoccali, Peter Q. Tranchida, Ivana L. Bonaccorsi, Paola Dugo, Luigi Mondello and Giovanni Dugo.  
Detailed analysis of the volatile fraction of mandarin essential oils by using the off-line combination of high performance liquid chromatography and comprehensive gas chromatography-mass spectrometry.  
Food Anal. Meth. 110, (2017), 1106-1116. ISSN 1618-2650. (April 2017, Springer, New York, USA)  
Original research paper
25. Paola Donato, Francesca Rigano, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Determination of Bioactive Polyphenols and Target Contaminants in Wine by the Nexera-e  
Food Lab. Int. 1 (2017) 20-23. (April 2017, Shimadzu Europa GmbH, Duisburg, Germany).  
Original research paper
26. Mariosimone Zoccali, Kevin A. Schug, Phillip Walsh, Jonathan Smuts and Luigi Mondello  
FLOW-MODULATED COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY COMBINED WITH A VACUUM ULTRAVIOLET DETECTOR FOR THE ANALYSIS OF COMPLEX MIXTURES  
Chromatogr. A 1497 (2017) 135-147. ISSN 0021-9673. (May 2017, Elsevier, B.V., Amsterdam, The Netherlands).  
Original research paper
27. Peter Q. Tranchida, Flavio A. Franchina, Luigi Mondello  
Analysis of essential oils through comprehensive two-dimensional gas chromatography: General utility  
Flavour Fragr J. 32 (2017) 218-227. ISSN 0882-5734 (July 2017, John Wiley & Sons, Ltd, West Sussex, UK).  
Original research paper
28. Thiago Rodrigues Bjerck, Maria Elisabete Machado, Elina Bastos Caramão, Peter Q. Tranchida, Luigi Mondello, Claudia Alcaraz Zini  
Moduladores de Fluxo para Cromatografia Gasosa Bidimensional Abrangente  
Flow Modulators in Comprehensive Two-Dimensional Gas Chromatography.  
Scientia Chromatographica <http://dx.doi.org/10.4322/sc.2017.009>. 9(2):101-116.  
ISSN 1984-4433.  
Review article

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Email: [chromaleont@chromaleont.it](mailto:chromaleont@chromaleont.it)



29. Francesco Cacciola, Marina Russo, Luigi Mondello, Paola Dugo.  
Comprehensive two-dimensional liquid chromatography (Chapter 16) in  
Handbooks in Separation Science. Colin F. Poole, Series Editor. Volume 1.  
Liquid Chromatography: Fundamentals and Instrumentation, Second Edition.  
Editors: S. Fanali, P.R. Haddad, C.F. Poole, M.-L. Riekkola. Elsevier (Amsterdam, The  
Netherlands). ISBN: 978-0-12-805393-5.  
Book chapter
30. Francesco Cacciola, Mariarosa Maimone, Paola Dugo, Luigi Mondello  
Green sample-preparation techniques in comprehensive two-dimensional  
chromatography  
Wilson's Edited by D. Barcelò. Green Sample Preparation Techniques: Principles,  
Advances and Applications. Volume Editors: E. Ibanez, A. Cifuentes. Elsevier  
(Amsterdam, The Netherlands). ISBN: 978-0-12-811082-9.  
Book chapter
31. Marco Beccaria, Veronica Inferrera, Francesca Rigano, Krzysztof Gorynski, Giorgia  
Purcaro, Paola Dugo, Luigi Mondello  
Highly informative multiclass profiling of lipids by ultra-high performance liquid  
chromatography – Low resolution (quadrupole) mass spectrometry by using  
electrospray ionization and atmospheric pressure chemical ionization interfaces  
J. Chromatogr. A 1509 (2017) 69-82. ISSN 0021-9673. (August 2017, Elsevier, B.V.,  
Amsterdam, The Netherlands).  
Research article
32. Katarzyna Barbara Baczek, Olga Kosakowska, Jarosław L. Przybył, Ewelina Pióro-  
Jabruck, Rosaria Costa, Luigi Mondello, Małgorzata Gniewosz, Alicja Synowiec,  
Zenon W glarz  
Antibacterial and antioxidant activity of essential oils and extracts from costmary  
(Tanacetum balsamita L.) and tansy (Tanacetum vulgare L.)  
Ind. Crop. Prod. 102 (2017) 154-163. ISSN: 0926-6690 (August 2017, Elsevier, B.V.,  
Amsterdam, The Netherlands).  
Research article
33. Mariosimone Zoccali, Giorgia Purcaro, Antonino Schepis, Peter Q. Tranchida, Luigi  
Mondello  
Evaluation of two miniaturized QuEChERS Methodologies prior to the fast gas  
chromatography-triple quadrupole mass spectrometry determination of  
pesticides in different vegetables  
Food Anal. Meth. 10 (2017) 2636–2645. ISSN 1618-2650. (August 2017, Springer,  
New York, USA).  
Research article
1. Miceli, A. Filocamo, S. Ragusa, F. Cacciola, P. Dugo, L. Mondello, R. F. De Rose, G. E.  
Lombardo, M. F. Taviano

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- Isatis tinctoria* L. (Brassicaceae): Chemical characterization, cytotoxic and antioxidant effects of phenolic-rich fraction from cauline leaves  
Chem. Biodivers. 14 (8) Article e-1700073. ISSN: 1612-1880. (August 2017, John Wiley & Sons, Ltd, West Sussex, UK).  
Research article
2. Daniele Giuffrida, Mariosimone Zoccali, Salvatore V. Giofrè, Paola Dugo, and Luigi Mondello  
Apocarotenoids determination in *Capsicum chinense* Jacq. cv Habanero by supercritical fluid chromatography-mass spectrometry Food Chem. 231 (2017) 316–323. ISSN: 0308-8146. (September 2017, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
3. Francesco Cacciola, Paola Donato, Luigi Mondello, Paola Dugo  
RECENT ADVANCES IN COMPREHENSIVE TWO-DIMENSIONAL LIQUID CHROMATOGRAPHY FOR THE ANALYSIS OF NATURAL PRODUCTS (Chapter 8) in Handbook of Advanced Chromatography-Mass Spectrometry Techniques. Edited by Micheal Holcapek and Wm. Craig Byrdwell. AOCS Press (London, United Kingdom). ISBN: 978-0-12-811732-3.  
Book chapter
4. Giorgia Purcaro, Peter Quinto Tranchida, Luigi Mondello  
COMPREHENSIVE GC METHODOLOGIES FOR THE ANALYSIS OF LIPIDS (Chapter 11 in Handbook of Advanced Chromatography-Mass Spectrometry Techniques. Edited by Micheal Holcapek and Wm. Craig Byrdwell. AOCS Press (London, United Kingdom). ISBN: 978-0-12-811732-3.  
Book chapter
5. Paola Donato, Paola Dugo, Luigi Mondello  
Separation of lipids (Chapter 8) in Handbooks in Separation Science. Colin F. Poole, Series Editor. Volume 2. Liquid Chromatography: Applications, Second Edition. Editors: S. Fanali, P.R. Haddad, C.F. Poole, M.-L. Riekkola. Elsevier (Amsterdam, The Netherlands). ISBN: 978-0-12-805392-8.  
Book chapter
6. Mariosimone Zoccali, Daniele Giuffrida, Paola Dugo, and Luigi Mondello  
Direct online extraction and determination, by supercritical fluid extraction supercritical fluid chromatography-mass spectrometry of targeted carotenoids from red Habanero peppers (*Capsicum chinense* Jacq.)  
J. Sep. Sci. 40 (2017) 3905-3913. ISSN 1615-306. (October 2017, Wiley-VCH, Weinheim, Germany).  
Research article
7. Francesco Cacciola, Paola Dugo, Luigi Mondello  
Multidimensional liquid chromatography in food analysis

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TRAC-Trends Anal. Chem 96 (2017) 116-123. ISSN 0165-9936 (November 2017 Elsevier, B.V., Amsterdam, The Netherlands).

Review article

8. Paige A. Malec, Marianna Oteri, Veronica Inferrera, Francesco Cacciola, Luigi Mondello, Robert T. Kennedy  
Determination of Amines and Phenolic Acids in Wine with Benzoyl Chloride Derivatization and Liquid Chromatography-Mass Spectrometry  
J. Chromatogr. A 1523 (2017) 248-256. ISSN 0021-9673. (November 2017, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
9. Danilo Sciarrone, Daniele Giuffrida, Archimede Rotondo, Giuseppe Micalizzi, Mariosimone Zoccali, Sebastiano Pantò, Paola Donato, Rosana Goncalves Rodrigues-das-Dores, Luigi Mondello  
Quali-quantitative characterization of the volatile constituents in Cordia verbenacea D.C. essential oil exploiting advanced chromatographic approaches and NMR analysis  
J. Chromatogr. A 1524 (2017) 246-253. ISSN 0021-9673. (November 2017, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
10. Luigi Mondello  
Isolation and Characterization of the Oxygen Heterocyclic Compounds (Coumarins, Psoralens, and Polymethoxylated Flavones) in Cosmetic Products  
Nat. Vol. Essent. Oils 4 (2017) 34. ISSN: 2148-9367 (Badebio Ltd., Turkey).  
Conference article
11. Margita Utczás, Giuseppe Micalizzi, Éva Martos, Luigi Mondello  
Analysis of potentially harmful volatiles in e-liquids by HS-GC-MS  
Nat. Vol. Essent. Oils 4 (2017) 55. ISSN: 2148-9367 (Badebio Ltd., Turkey).  
Conference article
12. A. Arigò, M. Zoccali, M. Utczás, M.L. Calabrò, P. Dugo and L. Mondello  
Characterization of limonoids in citrus essential oils by means of supercritical fluid chromatography tandem mass spectrometry (SFC-QqQ MS)  
Nat. Vol. Essent. Oils 4 (2017) 126. ISSN: 2148-9367 (Badebio Ltd., Turkey).  
Conference article
13. C. Fanali, G. Micalizzi, P. Dugo, L. Mondello  
Ionic liquids as stationary phases for fatty acids analysis by gas chromatography  
Analyst 142 (2017) 4601-4612. (December 2017, Royal Society of Chemistry, Cambridge, Great Britain).  
Review article
14. L. Schipilliti, I. L. Bonaccorsi, C. Occhiuto, P. Dugo, L. Mondello  
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Athentication of Citrus Volatiles based on Carbon Isotope Ratios

J.Essent. Oil Res. 30 (2018) 1-15. (January 2018, Taylor and Francis group, London, United Kingdom).

Research article

15. Francesco Cacciola, Marina Russo, Luigi Mondello, Paola Dugo  
Comprehensive Two-Dimensional Liquid Chromatography Coupled to Mass Spectrometry: Fundamentals, Method Development and Applications (Chapter 4) in ADVANCES IN THE USE OF LIQUID CHROMATOGRAPHY MASS SPECTROMETRY (LC-MS): INSTRUMENTATION DEVELOPMENTS AND APPLICATIONS. Edited by Achille Cappiello and Pierangela Palma. Elsevier (Amsterdam, Netherlands). ISBN: 978-0-444-63914-1.  
Book chapter
16. Barbara Giocastro, Marco Piparo, Peter Q. Tranchida, Luigi Mondello  
Cryogenic modulation fast comprehensive gas chromatography-mass spectrometry by using a 10 m micro-bore column combination: concept, method optimization and application  
J. Sep. Sci. 41 (2018) 1112-1117. ISSN:1615-306. (March 2018, Wiley-VCH, Weinheim, Germany).  
Research article
17. Francesca Rigano, Marianna Oteri, Marina Russo, Paola Dugo, Luigi Mondello  
Proposal of a linear retention index system for improving identification reliability of triacylglycerol profiles in different lipid samples by liquid chromatography methods  
Anal. Chem. 90 (2018) 3313-3320. ISSN: 0003-2700 (March 2018, American Chemical Society, Washington. D.C., USA).  
Research article
18. Mekala Venkatachalam, Miroslava Zelena, Francesco Cacciola, Lenka Ceslova, Emmanuelle Girard-Valenciennes, Patricia Clerc, Paola Dugo, Luigi Mondello, Mireille Fouillaud, Archimede Rotondo, Daniele Giuffrida, Laurent Dufossé  
Partial characterization of the pigments produced by the marine-derived fungus *Talaromyces albobiverticillius* 30548. Towards a new fungal red colorant for the food industry.  
J. Food Comp. Anal. 67 (2018) 38-47. ISSN: 0889-1575. (April 2018, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
19. Jozef Kovacik, Vojtěch Antoš, Giuseppe Micalizzi, Slawomir Dresler, Pavel Hrabák, Luigi Mondello  
Accumulation and toxicity of organochlorines in green microalgae  
J. Hazard. Mat. 347 (2018) 168-175. ISSN: 0304-3894. (April 2018, Elsevier, B.V., Amsterdam, The Netherlands).

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Research article

20. Mariosimone Zoccali, Simone Cappello, Luigi Mondello  
Multilevel characterization of marine microbial biodegradation potentiality by means of flow-modulated comprehensive two-dimensional gas chromatography combined with a triple quadrupole mass spectrometer  
J. Chromatogr. A 1547 (2018) 99-106. ISSN: 0021-9673. (April 2018, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
21. Daniele Giuffrida, Paola Donato, Paola Dugo, Luigi Mondello  
Recent Analytical Techniques Advances in the Carotenoids and Their Derivatives Determination in Various Matrixes  
J. Agric. Food Chem. 66 (2018) 3302-3307. ISSN: 0021-8561 (April 2018, American Chemical Society, Columbus, OH, USA).  
Research article
22. Francesco Cacciola, Paola Dugo, Luigi Mondello  
Characterization of Glycyrrhiza glabra Extract. Comprehensive two-dimensional Liquid Chromatography-Mass Spectrometry using multi-segmented Shift Gradients in the second Dimension  
Chrom+Food Forum 04/2018 (M. Dellert-Ditter).  
Research article
23. Mariosimone Zoccali, Luigi Mondello  
FM GCxGC. Flow-modulated comprehensive two-dimensional gaschromatography within the context of detectors hyphenation  
Chrom+Food Forum 04/2018 (M. Dellert-Ditter).  
Review article
24. Daniele Giuffrida, Mariosimone Zoccali, Adriana Arigò, Francesco Cacciola, Coralia Osorio Roa, Paola Dugo, Luigi Mondello  
Comparison of different analytical techniques for the analysis of carotenoids in Tamarillo (Solanum betaceum Cav.)  
Arch. Bioch. Biophys. 646 (2018) 161-167. ISSN: 0003-9861. (May 2018, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
25. Paola Donato, Giuseppe Micalizzi, Marianna Oteri, Francesca Rigano, Danilo Sciarrone, Paola Dugo, Luigi Mondello  
Comprehensive lipid profiling in marine organisms by hyphenated and multidimensional chromatography techniques coupled to mass spectrometry detection  
Anal. Bioanal. Chem. 410 (2018) 3297-3313. ISSN: 1618-2650. (May 2018, Springer, New York, USA).  
Research article

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Email: [chromaleont@chromaleont.it](mailto:chromaleont@chromaleont.it)



26. Maria Fernanda Taviano, Khaled Rashed, Angela Filocamo, Francesco Cacciola, Paola Dugo, Luigi Mondello, Carlo Bisignano, Rosaria Acquaviva, Natalizia Miceli  
Phenolic profile and biological properties of the leaves of *Ficus vasta* Forssk. (Moraceae) growing in Egypt  
BMC Complement. Altern. Med. 18 (2018) 161. ISSN: 1472-6882. (May 2018, Springer, New York, USA).  
Research article
27. Francesco Cacciola, Domenica Mangraviti, Francesca Rigano, Paola Donato, Paola Dugo, Luigi Mondello, Hernan J. Cortes  
Novel Comprehensive Multidimensional Liquid Chromatography Approach for Elucidation of the microbiosphere of shikimate-producing *Escherichia coli* SP1.1/pKD15.071 Strain  
Anal. Bioanal. Chem. 410 (2018) 3473-3482. ISSN: 1618-2650. (June 2018, Springer, New York, USA).  
Research article
28. Marina Russo, Chiara Fanali, Giusy Tripodo, Paola Dugo Rosario Muleo, Laura Dugo, Laura De Gara, Luigi Mondello  
Analysis of phenolic compounds in different parts of pomegranate (*Punica granatum*) fruit by HPLC-PDA-ESI/MS and evaluation of their antioxidant activity: application to different Italian varieties.  
Anal. Bioanal. Chem. 410 (2018) 3507-3520. ISSN: 1618-2650. (June 2018, Springer, New York, USA).  
Research article
29. Danilo Sciarrone, Antonino Schepis, Mariosimone Zoccali, Paola Donato, Donato Creti, Amedeo Alpi, Luigi Mondello  
Multidimensional Gas Chromatography Coupled to Combustion- Isotope Ratio Mass Spectrometry/Quadrupole MS with a Low-Bleed Ionic Liquid Secondary Column for the Authentication of Truffles and Products Containing Truffle  
Anal. Chem. 90 (2018) 6610-6617. ISSN: 0003-2700 (June 2018, American Chemical Society, Washington. D.C., USA).  
Research article
30. M. F. Taviano, A. Filocamo, S. Ragusa, F. Cacciola, P. Dugo, L. Mondello, G. Paterniti Mastrazzo, R. F. De Rose, M. Celano, G. E. Lombardo, A. Melchini, N. Miceli  
Phenolic profile, antioxidant and cytotoxic properties of polar ex-tracts from leaves and flowers of *Isatis tinctoria* L. (Brassicaceae) growing in Sicily  
Plant Biosyst. 152 (2018) 795-803. ISSN: 1126-3504. (July 2018, Taylor and Francis group, London, United Kingdom).  
Research article

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31. D. De Pasquale, I. Aloisi, P. Q. Tranchida, L. Mondello, G. Paterniti, R. Sanogo, F. Occhiuto  
Analytical and Pharmacological activity of the lipidosterolic extract of *Kigelia Africanan* (LAM) Benth. fruits  
*Piante Medicinali* 17 (1-2) (2018) 71. ISSN: 1825-5086. (Siena, Italy).  
Research article
32. Olga Kosakowska, Katarzyna Baczek, Jarosław L. Przybył, Ewelina Pióro-Jabrucka, Weronika Czupa, Alicja Synowiec, Małgorzata Gniewosz, Rosaria Costa, Luigi Mondello, Zenon Węglarz  
Antioxidant and Antibacterial Activity of Roseroot (*Rhodiola rosea* L.) Dry Extracts  
*Molecules* 23 (2018) 1767. ISSN: 1420-3049. (July 2018, MDPI AG, Basel, Switzerland).  
Research article
33. Peter Q. Tranchida, Ivan Aloisi, Barbara Giocastro, Luigi Mondello  
Current state of comprehensive two-dimensional gas chromatography-mass spectrometry with focus on process of ionization  
*TRAC-Trend Anal. Chem.* 105 (2018) 360-366. ISSN 0165-9936 (August 2018, Elsevier, B.V., Amsterdam, The Netherlands).  
Review article
34. S. Boussahel, F. Cacciola, S. Dahamna, L. Mondello, A. Sajia, F. Cimino, A. Speciale, M. Cristani  
Flavonoid Profile, Antioxidant and Antiglycation Properties of *Retama sphaerocarpa* Fruits Extracts  
*Nat. Prod. Res.* 32 (2018) 1911-1919. ISSN 1478-6419 (August 2018, Taylor and Francis group, London, United Kingdom).  
Research article
35. Yong Foo Wong, Francesco Cacciola, Soraya Fermas, Solange Riga, Darryl James, Valeria Manzin, Brice Bonnet, Philip John Marriott, Paola Dugo, Luigi Mondello  
Untargeted profiling of *Glycyrrhiza glabra* with comprehensive two-dimensional liquid chromatography-mass spectrometry using multi-segmented shift gradients in the second dimension: expanding the metabolic coverage  
*Electrophoresis* 39 (2018) 1993-2000. ISSN: 0173-0835 (August 2018, Wiley-VCH, Weinheim, Germany).  
Research article
36. Mariosimone Zoccali, Daniele Giuffrida, Fabio Salafia, Salvatore V. Giofrè, Luigi Mondello  
Carotenoids and apocarotenoids determination in Human blood samples by online supercritical fluid extraction-supercritical fluid chromatography-tandem mass spectrometry  
*Anal. Chim. Acta* 1032 (2018) 40-47. (August 2018, Elsevier, B.V., Amsterdam, The Netherlands).

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Research article

37. Ivana Blaženović, Tong Shen, Sajjan S. Mehta, Tobias Kind, Jian Ji, Marco Piparo, Francesco Cacciola, Luigi Mondello, Oliver Fiehn  
Increasing compound identification rates in untargeted metabolomics research with liquid chromatography drift time-ion mobility mass spectrometry  
Anal. Chem. 90 (2018) 10758-10764. ISSN: 0003-2700 (September 2018, American Chemical Society, Washington. D.C., USA).  
Research article
38. Marina Russo, Paola Dugo, Chiara Fanali, Laura Dugo, Mariosimone Zoccali, Luigi Mondello, Laura De Gara  
Determination of caffeine in coffee, tea and cocoa using online extraction coupled to liquid chromatography  
Food Anal. Meth. 11 (2018) 2637-2644. ISSN 1618-2650 (October 2018, Springer, New York, USA).  
Research article
39. Juliana Garcia, Daniele Giuffrida, Paola Dugo, Luigi Mondello, Coralia Orosio Roa  
Development and characterisation of carotenoid-rich microencapsulates from tropical fruit by-products and yellow tamarillo (*Solanum betaceum* Cav.)  
Powder Technol. 339 (2018) 7020-709. ISSN 0032-5910. (October 2018, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
40. Maristella Ippolito, Maria Assunta Girasolo, Filippo Saiano, Simona Rubino, Alessandro Attanzio, Archimede Rotondo, Luigi Mondello, Massimo L. Capobianco, Piera Sabatino, Luisa Tesoriere, Girolamo Casella  
Anti-cancer activity of di- and tri-organotin(IV) compounds with D-(+)-Galacturonic acid on human tumor cells.  
J. Inorg. Biochem. 188 (2018) 102-112. ISSN 0162-0134. (November 2018, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
41. Utczás, M., Cacciola, F., Giuffrida, D., Russo, M., Bonaccorsi, I., Dugo, P., Mondello, L.  
Bioactives Screening in Overripe Fruits and Vegetables by Liquid Chromatography Coupled to Photodiode Array and Mass Spectrometry Detection  
Food Anal. Meth. 11 (2018) 3053-3070. ISSN 1618-2650. (November 2018, Springer, New York, USA).  
Research article
42. Mariosimone Zoccali, Adriana Arigò, Marina Russo, Fabio Salafia, Paola Dugo, and Luigi Mondello  
Characterization of limonoids in Citrus essential oils by means of supercritical fluid chromatography tandem mass spectrometry

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Food Anal. Meth.11 (2018) 3257-3266. ISSN 1618-2650. (November 2018, Springer, New York, USA).

Research article

43. Jozef Kovacik, Giuseppe Micalizzi, Luigi Mondello, Alexander Chemodanov, Sławomir Dresler, Juraj Hladky, Petr Babula  
Metabolic responses of marine alga *Ulva compressa* to single and combined heavy metals  
Chemosphere 213 (2018) 384-394. ISSN 0045-6535. (December 2018, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
44. Federico Vita, Flavio Antonio Franchina, Cosimo Taiti, Vittoria Locato, Giorgio Pennazza, Marco Santonico, Giorgia Purcaro, Laura De Gara, Stefano Mancuso, Luigi Mondello, Amedeo Alpi  
Environmental conditions influence the biochemical properties of the fruiting bodies of *Tuber magnatum* Pico  
Sci. Rep. 8 (2018) 7243. ISSN: 2045-2322. (December 2018, Nature Publishing Group, London, UK).  
Research article
45. Paola Donato, Daniele Giuffrida, Marianna Oteri, Veronica Inferrera, Paola Dugo, Luigi Mondello  
Supercritical fluid chromatography×ultrahigh pressure liquid chromatography for red chilli pepper fingerprinting by photodiode array, quadrupole-time-of-flight and ion mobility mass spectrometry (SFC×RP- UHPLC-PDA-QToF MS-IMS)  
Food Anal. Meth.11 (2018) 3331-3341. ISSN 1618-2650. (December 2018, Springer, New York, USA).  
Research article
46. Zarai Zied, Ahlem Edahech, Francesca Rigano, Giuseppe Micalizzi, Luigi Mondello, Nadia Kharrat, Mohamed Sellami, Francesco Cacciola  
Monoacylglycerol and diacylglycerol production by hydrolysis of refined vegetable oil by-products using an immobilized lipase from *Serratia* sp.W3  
J. Sep. Sci. 41 (2018) 4323–4330. ISSN:1615-306. (December 2018, Wiley-VCH, Weinheim, Germany).  
Research article
47. Chiara Fanali, Susanna Della Posta, Alessandra Vilmercati, Laura Dugo, Marina Russo, Tommasangelo Petitti, Luigi Mondello, Laura de Gara  
Extraction, Analysis, and Antioxidant Activity Evaluation of Phenolic Compounds in Different Italian Extra-Virgin Olive Oils  
Molecules 23 (2018) 3249. ISSN: 1420-3049. (December 2018, MDPI AG, Basel, Switzerland).  
Research article

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Email: [chromaleont@chromaleont.it](mailto:chromaleont@chromaleont.it)



48. Paola Donato, Danilo Sciarrone, Paola Dugo, Luigi Mondello  
Applications of Supercritical Fluid Chromatography in the Field of Edible Lipids (Chapter 7) In book: Supercritical Fluid Chromatography, pp.163-188, Vol. 2 (December 2018).  
Book chapter
49. L. Schipilliti, I. Bonaccorsi, A. G. Buglia, L. Mondello  
Comprehensive Isotopic Data Evaluation (CIDE) of Carbon Isotope Ratios for Quality Assessment and Traceability of Coffee  
Food Anal. Meth. 12 (2019) 121-127. ISSN 1618-2650. (January 2019, Springer, New York, USA).  
Research article
50. Valtcho D. Zheljazkov, Giuseppe Micalizzi, Ivanka Semerdjieva, Luigi Mondello  
Chemical composition of the essential oil of the 2 endemic species *Micromeria frivaldszkyana* (Degen) Velen.  
Molecules 24 (2018) 440. ISSN: 1420-3049. (January 2019, MDPI AG, Basel, Switzerland).  
Research article
51. Francesca Rigano, Sara Stead, Domenica Mangraviti, Renata Jandova, Davy Petit, Nino Marino, Luigi Mondello  
Use of an Intelligent Knife (iknife), Based on the Rapid Evaporative Ionization Mass Spectrometry Technology, for Authenticity Assessment of Pistachio Samples  
Food Anal. Meth. 12 (2019) 558-568. ISSN 1618-2650. (February 2019, Springer, New York, USA).  
Research article
52. Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
On-line liquid chromatography-comprehensive two dimensional gas chromatography with dual detection for the analysis of mineral oil and synthetic hydrocarbons in cosmetic lip care products  
Anal. Chim. Acta 1048 (2019) 221-226. ISSN: 0003-2670. (February 2019, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
53. Jozef Kováčik, Sławomir Dresler, Giuseppe Micalizzi, Petr Babula, Juraj Hladk., Luigi Mondello  
Nitric oxide affects cadmium-induced changes in the lichen *Ramalina farinacea*  
Nitric Oxide 83 (2019) 11-18. ISSN 1089-8603. (February 2019, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
54. Mariosimone Zoccali, Barbara Giocastro, Peter Q. Tranchida, Luigi Mondello



Use of a recently-developed thermal modulator within the context of comprehensive two-dimensional gas chromatography combined with time-of-flight mass spectrometry: gas flow optimization aspects

J. Sep. Sci. 41 (2019) 691-699. ISSN:1615-306. (February 2019, Wiley VCH, Weinheim, Germany).

Research article

55. Luisa Schipilliti, Ivana L. Bonaccorsi, Luigi Mondello  
Carbon Isotope Ratios of Selected Volatiles of Authentic Petitgrain Oils  
J. Essent. Oil Res. 31 (2019) 99-110. (March 2019, Taylor and Francis group, London, United Kingdom).  
Research article
56. Peter Q. Tranchida, Ivan Aloisi, Barbara Giocastro, Mariosimone Zoccali, Luigi Mondello  
Comprehensive two-dimensional gas chromatography massspectrometry using milder electron ionization conditions: Apreliminary evaluation  
J. Chromatogr. A 1589 (2019) 134-140. ISSN 0021-9673 (March 2019, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
57. Adam T. Woolley, Antje J. Baeumner, Maria C. Moreno-Bondi, Luigi Mondello  
Introducing three new ABC Editors  
Anal. Bioanal. Chem. ISSN: 1618-2650. (March 2019, Springer, New York, USA).  
Editorial
58. Carlo Bisignano, Giovanna Ginestra, Antonella Smeriglio, Erminia La Camera, Giuseppe Crisafi, Flavio A. Franchina, Peter Q. Tranchida, Angela Alibrandi, Domenica Trombetta, Luigi Mondello, Giuseppina Mandalari  
Study of the lipid profile of ATCC and clinical strains of Staphylococcus aureus in relation to their antibiotic resistance  
Molecules 24 (2019) 1276. ISSN:1420-3049 (April 2019, MDPI AG, Basel, Switzerland).
59. Natalizia Miceli, Emilia Cavò, Salvatore Ragusa, Francesco Cacciola, Paola Dugo, Luigi Mondello, Andreana Marino, Fabrizio Cincotta, Concetta Conduro, Maria Fernanda Taviano  
Phytochemical characterization and biological activities of a hydroalcoholic extract obtained from the aerial parts of Matthiola incana (L.) R. Br.subsp. incana (Brassicaceae) growing wild in Sicily (Italy)  
Chem. Biodivers. 16 (4) Article: e1800677. ISSN: 1612-1880. (April 2019, John Wiley & Sons, Ltd, West Sussex, UK).  
Research article
60. Sonia Hamiche, Abdelmalek Badis, Bassem Jaouadi, Naima Bouzidi, Yasmina Daghbouche, Margita Utczas, Luigi Mondello, El Hattab Mohamed

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Identification of antimicrobial volatile compounds produced by the marine bacterium *Bacillus amyloliquefaciens* strain S13 newly isolated from brown alga *Zonaria tournefortii*

J. Essent. Oil Res. 31 (2019) 203-210. (May 2019, Taylor and Francis group, London, United Kingdom).

Research article

61. Matteo Bordiga, Fabiano Travaglia, Daniele Giuffrida, Domenica Mangraviti, Francesca Rigano, Luigi Mondello, Marco Arlorio, Jean Daniel Coisson  
Characterization of peel and pulp proanthocyanidins and carotenoids during ripening in persimmon "Kaki Tipo" cv, cultivated in Italy  
Food Res. Int. 120 (2019) 800-809. ISSN: 0963-9969. (June 2019, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
62. Katia Arena, Francesco Cacciola, Domenica Mangraviti, Mariosimone Zoccali, Francesca Rigano, Nino Marino, Paola Dugo, Luigi Mondello  
Determination of the polyphenolic fraction of *Pistacia vera* L. kernel extracts by comprehensive two-dimensional liquid chromatography coupled to mass spectrometry detection  
Anal. Bioanal. Chem. 411 (2019) 4819-4829. ISSN: 1618-2650. (July 2019, Springer, New York, USA).  
Research article
63. Mariosimone Zoccali, Daniele Giuffrida, Fabio Salafia, Carmen Socaciu, Kari Skjånes, Paola Dugo, Luigi Mondello.  
First Apocarotenoids Profiling of Four Microalgae Strains  
Antioxidants 8 (2019) 209. ISSN 2076-3921. (July 2019, MDPI AG, Basel, Switzerland).  
Research article
64. Mariosimone Zoccali, Paola Donato, Luigi Mondello.  
Recent Advances in the Coupling of Carbon Dioxide-Based Extraction and Separation Techniques  
TRAC-Trend Anal. Chem. 116 (2019) 158-165. ISSN: 0165-9936. July 2019, Elsevier, B.V., Amsterdam, The Netherlands).  
Review article
65. Jitka Klikarovà, Archimede Rotondo, Francesco Cacciola, Lenka Česlovà, Paola Dugo, Luigi Mondello, Francesca Rigano.  
Complementary analytical approaches for the elucidation of the phenolic fraction of extra virgin olive oils  
Food Anal. Meth. 12 (2019) 1759-1770. ISSN: 1618-2650. (August 2019, Springer, New York, USA).  
Research article

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Email: [chromaleont@chromaleont.it](mailto:chromaleont@chromaleont.it)



66. Danilo Sciarrone, Antonino Schepis, Gemma De Grazia, Archimede Rotondo, Filippo Alibrando, Humberto Bizzo, Cicero Deschamps, Leonard M. Sidisky, Luigi Mondello. Collection and identification of an unknown component from Eugenia uniflora essential oil exploiting a multidimensional preparative three-GC system employing apolar, mid-polar, and ionic liquid stationary phases  
Faraday Disc. 218 (2019) 101-114. ISSN: 1359-6640. (August 2019, Royal Society of Chemistry, London, UK).  
Research article
67. Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello. Fast gas chromatography-mass spectrometry: a review of the last decade  
TRAC-Trend Anal. Chem. 118 (2019) 444-452. ISSN 0165-9936. September 2019, Elsevier, B.V., Amsterdam, The Netherlands).  
Review article
68. Francesca Rigano, Peter Q. Tranchida, Paola Dugo, Luigi Mondello. High-performance liquid chromatography combined with electron ionization mass spectrometry: A review  
TRAC-Trend Anal. Chem. 118 (2019) 112-122. ISSN 0165-9936. September 2019, Elsevier, B.V., Amsterdam, The Netherlands).  
Review article
69. Adriana Arigò, Francesca Rigano, Giuseppe Micalizzi, Paola Dugo, Luigi Mondello. Oxygen Heterocyclic Compound Screening in Citrus Essential Oils by Linear Retention Index Approach Applied to Liquid Chromatography Coupled to Photodiode Array Detector  
Flav. Fragr. J. 34 (2019) 349-364. ISSN 0882-5734 (September 2019, John Wiley & Sons LTD, West Sussex, UK).  
Research article
70. Francesca Rigano, Domenica Mangraviti, Sara Stead, Nathaniel Martin, Davy Petit, Paola Dugo, Luigi Mondello. Rapid evaporative ionization mass spectrometry coupled with an electrosurgical knife for the rapid identification of Mediterranean Sea species  
Anal. Bioanal. Chem. 411 (2019) 6603-6614. ISSN 1618-2650. (October 2019, Springer, New York, USA).  
Research article
71. Yassine Oulad El Majdoub, Mohammed Diouri, Paola Arena, Adriana Arigò, Francesco Cacciola, Francesca Rigano, Paola Dugo, Luigi Mondello. Evaluation of the availability of delphinidin and cyanidin-3-O-sambubioside from Hibiscus sabdariffa and 6-gingerol from Zingiber officinale in colon using liquid chromatography and mass spectrometry detection  
Eur. Food Res. Technol. 245 (2019) 2425-2433. ISSN 1438-2377. (November 2019, Springer, New York, USA).  
Research article

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Email: [chromaleont@chromaleont.it](mailto:chromaleont@chromaleont.it)





72. Imane Haoujar, Francesco Cacciola, Jamal Abrini, Domenica Mangraviti, Daniele Giuffrida, Yassine Oulad El Majdoub, Ayoub Kounnoun, Natalizia Miceli, Maria Fernanda Taviano, Luigi Mondello, Francesca Rigano, Nadia Skali Senhaji.  
The Contribution of Carotenoids, Phenolic Compounds, and Flavonoids to the Antioxidative Properties of Marine Microalgae Isolated from Mediterranean Morocco  
Molecules 24 (2019) 4037. ISSN 1420-3049 (November 2019, MDPI AG, Basel, Switzerland).  
Research article
73. Mariosimone Zoccali, Barbara Giocastro, Ivana L. Bonaccorsi, Alessandra Trozzi, Peter Q. Tranchida, Luigi Mondello.  
In-depth qualitative analysis of lime essential oils by using the off-line combination of comprehensive two-dimensional gas chromatography-quadrupole mass spectrometry  
Foods 8 (2019) 580. ISSN 2304-8158. (November 2019, MDPI AG, Basel, Switzerland).  
Research article
74. Daniella C. Murador, Fabio Salafia, Mariosimone Zoccali, Paula L.G. Martins, Antonio G. Ferreira, Paola Dugo, Luigi Mondello, Veridiana V. de Rosso, Daniele Giuffrida.  
Green extraction approaches for carotenoids and esters: characterization of native composition from orange peel  
Antioxidants (2019) . ISSN 2076-3921. (November 2019, MDPI AG, Basel, Switzerland).  
Research article
75. Daniele Giuffrida, Francesco Cacciola, Paula Mapelli-Brahm, Carla M. Stinco, Paola Dugo, Marianna Oteri, Luigi Mondello, Antonio J. Melendez-Martinez.  
Free carotenoids and carotenoids esters composition in Spanish orange and mandarin juices from diverse varieties  
Food Chem. 300 (2019) 125-139. ISSN 0308-8146. (December 2019, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
76. Mohti H., Taviano M.F., Cacciola F., Dugo P., Mondello L., Marino A., Crisafi G., Benameur Q., Zaid A., Miceli N.  
Inula viscosa (L.) Aiton leaves and flower buds: Effect of extraction solvent/technique on their antioxidant ability, antimicrobial properties and phenolic profile  
Nat. Prod. Res. 34 (2020) 46-52. ISSN 1478-6419. (January 2020, Taylor and Francis group, London, United Kingdom).  
Research article



77. Marina Russo, Francesco Cacciola, Katia Arena, Domenica Mangraviti, Laura de Gara, Paola Dugo, Luigi Mondello.  
Characterization of the polyphenolic fraction of pomegranate samples by comprehensive two-dimensional liquid chromatography coupled to mass spectrometry detection  
Nat. Prod. Res. 34 (2020) 39-45. ISSN 1478-6419. (January 2020, Taylor and Francis group, London, United Kingdom).  
Research article
78. Daniele Giuffrida, Christophe Monnet, Florence Laurent, Francesco Cacciola, Marianna Oteri, Mélanie Le Piver, Yanis Caro, Paola Donato, Luigi Mondello, Daniel Roueyre, Laurent Dufossé.  
Carotenoids from the ripening bacterium *Brevibacterium linens* impart color to the rind of the French cheese, Fourme de Montbrison (PDO)  
Nat. Prod. Res. 34 (2020) 10-15. ISSN 1478-6419. (January 2020, Taylor and Francis group, London, United Kingdom).  
Research article
79. Yanis Caro, Thomas Petit, Isabelle Grondin, Patricia Clerc, Hermann Thomas, Daniele Giuffrida, Barbara Giocastro, Peter Q. Tranchida, Ivan Aloisi, Daniella Murador, Luigi Mondello, Laurent Dufossé.  
Chemical characterization of unconventional palm oils from *Hyophorbe indica* and two other endemic *Arecaceae* species from Reunion Island  
Nat. Prod. Res. 34 (2020) 93-101. ISSN 1478-6419. (January 2020, Taylor and Francis group, London, United Kingdom).  
Research article
80. El Hattab Mohamed, Nacera Riad, Zahi Reda, Emanuela Trovato, Naima El hattab, Yasmina Daghbouche, Margita Utczás, Luigi Mondello.  
Chemical screening and antibacterial activity of essential oil and volatile fraction of *Dictyopteris polypodioides*  
Microchem. J. 152 (2020) 1044-15. ISSN: 0026-265X. (January 2020, Elsevier, B.V., Amsterdam, The Netherlands).
81. Giuffrida D., Zoccali M., Mondello L.  
(2020). Chapter 16: Carotenoid and Apocarotenoid Analysis by SFE-SFC-QqQ/MS, p.209-219. In: Rodríguez-Concepción M., Welsch R. (eds) Plant and Food Carotenoids. Methods in Molecular Biology, vol 2083. Humana, New York, NY. ISBN: 978-1-4939-9951-4.
82. Francesca Rigano, Marina Russo, Adriana Arigò, P. Dugo, L. Mondello.  
Combining Linear Retention Index and Electron Ionization Mass Spectrometry for a Reliable Identification in Nano Liquid Chromatography  
J. Chromatogr. A 1610 (2019) 460581. ISSN 0021-9673 (January 2020, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article

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Email: [chromaleont@chromaleont.it](mailto:chromaleont@chromaleont.it)



1. Federico Vita, Beatrice Giuntoli, Edoardo Bertolini, Cosimo Taiti, Elettra Marone, Chiara D'Ambrosio, Emanuela Trovato, Danilo Sciarrone, Mariosimone Zoccali, Raffaella Balestrini, Andrea Scaloni, Luigi Mondello, Stefano Mancuso, Massimo Alessio, Amedeo Alpi.  
Tuberomics: A new omic profiling for the adaption of edible fungi (*Tuber magnatum* Pico) to different natural environments  
BMC Genomics 21 (2020) 90. ISSN: 1471-2164 (January 2020, BMC Campus, London, England).  
Research article
1. Rocío Gallego, Katia Arena, Paola Dugo, Luigi Mondello, Elena Ibáñez, Miguel Herrero.  
Application of compressed fluid-based extraction and purification procedures to obtain astaxanthin-enriched extracts from *Haematococcus pluvialis* and characterization by comprehensive two-dimensional liquid chromatography coupled to mass spectrometry  
Anal. Bional. Chem. 412 (2020) 589-599. ISSN 1618-2650. (January 2020, Springer, New York, USA).  
Research article
2. Peter Q. Tranchida, Luigi Mondello.  
"High-speed Gas Chromatography: Basic Theory, General Principles, Practical Aspects and Food Analysis" P.Q. Tranchida (Ed) pp. 169-198. ISBN [9781788011273 \(2019\)](#) The Royal Society of Chemistry.  
In press Advanced Gas Chromatography in Food Analysis
3. Peter Q. Tranchida, Luigi Mondello.  
"Comprehensive Two-dimensional Gas Chromatography"  
P.Q. Tranchida (Ed) pp. 237-282 ISBN [9781788011273 \(2019\)](#) The Royal Society of Chemistry.  
In press Advanced Gas Chromatography in Food Analysis
4. Giuseppe Micalizzi, Emanuela Ragosta, Sara Farnetti, Paola Dugo, Peter Q. Tranchida, Luigi Mondello, Francesca Rigano.  
Rapid and miniaturized qualitative and quantitative gas chromatography profiling of human blood fatty acids  
Anal. Bional. Chem. 412 (2020) 2327-2337 (2020). . ISSN 1618-2650. (January 2020, Springer, New York, USA).  
Research article
5. Marina Russo, Maria Beatrice Ronci, Alessandra Vilmercati, Matteo Gionfriddo, Chiara Fanali, Laura Dugo, Vittoria Locato, Luigi Mondello, Laura De Gara.  
African baobab (*Adansonia digitata*) fruit as promising source of procyanidins  
Eur. Food Res. Technol. 246 (2020) 297-306. ISSN 1438-2377. (February 2020,

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Springer, New York, USA).

Research article

6. Marina Russo, Maria Beatrice Ronci, Alessandra Vilmercati, Matteo Gionfriddo, Chiara Fanali, Laura Dugo, Vittoria Locato, Luigi Mondello, Laura De Gara. African baobab (*Adansonia digitata*) fruit as promising source of procyanidins *Eur. Food Res. Technol.* 246 (2020) 297-306. ISSN 1438-2377. (February 2020, Springer, New York, USA).  
Research article
7. Zied Zarai, Ahlem Edahech, Francesca Rigano, Marianna Oteri, Giuseppe Micalizzi, Luigi Mondello, Francesco Cacciola. Characterization of monoacylglycerols and diacylglycerols rich in polyunsaturated fatty acids produced by hydrolysis of *Mustelus mustelus* liver oil catalyzed by an immobilized bacterial lipase *J. Chromatogr. A* 1613 (2020) 460692. ISSN 0021-9673 (February 2020, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
8. Katia Arena, Francesca Rigano, Domenica Mangraviti, Francesco Cacciola, Francesco Occhiuto, Paola Dugo and Luigi Mondello. Exploration of the iKnife technology as a shotgun mass spectrometry approach for the comprehensive characterization of *Kigelia africana* (Lam) Benth. fruit. *Molecules* 25 (2020) 962. ISSN 1420-3049 (February 2020, MDPI AG, Basel, Switzerland).  
Research article
9. Katia Arena, Francesco Cacciola, Laura Dugo, Paola Dugo, Luigi Mondello. Determination of the metabolite content of *Brassica juncea* cultivars by comprehensive two-dimensional liquid chromatography coupled to photodiode array and mass spectrometry detection *Molecules* 25 (2020) 1235. (March 2020, MDPI AG, Basel, Switzerland).  
Research article
10. Natalizia Miceli, Emilia Cavo, Monica Ragusa, Francesco Cacciola, Luigi Mondello, Laura Dugo, Rosanna Aquaviva, Giuseppe Antonio Malfa, Andreana Marino, Manuela D. Arrigo, Maria Fernanda Taviano. *Brassica incana* Ten. (Brassicaceae): Phenolic Constituents, Antioxidant and Cytotoxic Properties of the Leaf and Flowering Top Extracts *Molecules* 25 (2020) 1461. (March 2020, MDPI AG, Basel, Switzerland).  
Research article
11. Cristina Malegori, Eleonora Mustorgi, Monica Casale, Paolo Oliveri, Maryam Hooshyari, Luigi Mondello, Marianna Oteri, Hayette Bounneche. A chemometric strategy to evaluate the comparability of PLS models obtained from

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two analytical settings in the determination of EVOO quality parameters by NIR spectroscopy

Chemometr. Intell. Lab. Syst. 199 (2020) 103974. ISSN: 0169-7439. (April 2020, Elsevier, B.V., Amsterdam, The Netherlands).

Research article

12. Ivan Aloisi, Tiago Schena, Barbara Giocastro, Mariosimone Zoccali, Peter Q. Tranchida, Elina Bastos Caramão and Luigi Mondello.

Towards the determination of an equivalent standard column set between cryogenic and flow-modulated comprehensive two-dimensional gas chromatography

Anal. Chim. Acta 110 (2020), 231-236. ISSN 0003-2670. (February 2012, Elsevier, B.V., Amsterdam, The Netherlands).

Research article

13. Peter Q. Tranchida, Ivan Aloisi, Luigi Mondello.

Recent application and instrumental trends in comprehensive two-dimensional gas chromatography

LCGC Europe, 33(4), 172-178 (April 2020). ISSN 1471-6577 (April 2020, Multimedia UK, Cheshire, UK).

14. Laura Dugo, Marina Russo, Francesco Cacciola, Filippo Mandolino, Fabio Salafia, Alessandra Vilmercati, Chiara Fanali, Monica Casal, Laura De Gara, Paola Dugo, Luigi Mondello, Francesca Rigano.

Determination of the Phenol and Tocopherol Content in Italian High-Quality Extra-Virgin Olive Oils by Using LC-MS and Multivariate Data Analysis

Food Anal. Meth. 13 (2020) 1027-1041. ISSN: 1618-2650. (April 2020, Springer, New York, USA).

Research article

15. Peter Q. Tranchida, Luigi Mondello.

“Conventional GC-MS applications”

In “Hyphenations of capillary chromatography with mass spectrometry” P.Q. Tranchida, L. Mondello (Eds) pp. 75-108

ISBN 9780128096383 (2020 Elsevier)

Book chapter

16. Peter Q. Tranchida, Mariosimone Zoccali, Luigi Mondello.

“High-speed GC-MS: basic theory, practical aspects, and applications”

In “Hyphenations of capillary chromatography with mass spectrometry” P.Q. Tranchida, L. Mondello (Eds) pp. 109-132

ISBN 9780128096383 (2020 Elsevier)

Book chapter

17. Peter Q. Tranchida, Luigi Mondello.

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Email: [chromaleont@chromaleont.it](mailto:chromaleont@chromaleont.it)



- “Comprehensive 2D gas chromatography”  
In “Hyphenations of capillary chromatography with mass spectrometry” P.Q. Tranchida, L. Mondello (Eds) pp. 183-226  
ISBN 9780128096383 (2020 Elsevier)  
Book chapter
18. Paola Donato, Paola Arena, Luigi Mondello.  
“Theoretical and practical aspects of LC-MS analysis”  
In “Hyphenations of capillary chromatography with mass spectrometry” P.Q. Tranchida, L. Mondello (Eds) pp. 297-317  
ISBN 9780128096383 (2020 Elsevier)  
Book chapter
19. Francesco Cacciola, Domenica Mangraviti, Luigi Mondello, Paola Dugo.  
“Hyphenations of 2D capillary-based LC with mass spectrometry”  
In “Hyphenations of capillary chromatography with mass spectrometry” P.Q. Tranchida, L. Mondello (Eds) pp. 369-412  
ISBN 9780128096383 (2020 Elsevier)  
Book chapter
20. Peter Q. Tranchida, Luigi Mondello.  
“Detectors and basic data analysis”  
In “Basic multidimensional gas chromatography”  
N.H. Snow (Ed) pp. 205-227  
ISBN 9780128137451 (2020 Academic Press)  
Book chapter
21. Ivan Aloisi, Mariosimone Zoccali, Peter Q. Tranchida and Luigi Mondello.  
Analysis of organic sulphur compounds in coal tar by using comprehensive two-dimensional gas chromatography-high resolution time-of-flight mass spectrometry  
Separations, 7, 26 (2020). EISSN 2297-8739 (May 2020, MDPI AG, Basel, Switzerland)  
Research article
22. Katia Arena, Francesco Cacciola, Francesca Rigano, Paola Dugo, Luigi Mondello.  
Evaluation of matrix effect in one-dimensional and comprehensive twodimensional liquid chromatography for the determination of the phenolic fraction in extra virgin olive oils  
J. Sep. Sci. 43 (2020) 1781-1789. ISSN 1615-306. (May 2020, Wiley-VCH, Weinheim, Germany).  
Research article
23. Francesca Rigano, Marianna Oteri, Giuseppe Micalizzi, Domenica Mangraviti, Paola Dugo, Luigi Mondello.





Lipid profile of fish species by liquid chromatography coupled to mass spectrometry and a novel linear retention index database  
J. Sep. Sci. 43 (2020) 1773-1780. ISSN 1615-306. (May 2020, Wiley-VCH, Weinheim, Germany).

Research article

24. Sourav Das, Barbara Vörös-Horváth, Tímea Bencsik, Giuseppe Micalizzi, Luigi Mondello, Györgyi Horváth, Tamás Koszegi, Aleksandar Széchenyi.  
Antimicrobial Activity of Different Artemisia Essential Oil Formulations Molecules 25 (2020) 2390. (May 2020, MDPI AG, Basel, Switzerland).  
Research article
25. Francesco Cacciola, Francesca Rigano, Paola Dugo, Luigi Mondello.  
Comprehensive two-dimensional liquid chromatography as a powerful tool for the analysis of food and food products  
TrAC-Trend Anal. Chem 127 (2020) 115894. ISSN 0165-9936. (June 2020, Elsevier, B.V., Amsterdam, The Netherlands).  
Review article
26. Jitka Klikarová, Lenka Česlová, Petra Kalendová, Paola Dugo, Luigi Mondello, Francesco Cacciola.  
Evaluation of Italian extra virgin olive oils based on the phenolic compounds composition using multivariate statistical methods  
Eur. Food Res. Technol. 246 (2020) 1241-1249. ISSN 1438-2377.  
(November 2019, Springer, New York, USA).
27. Chiara Fanali, Margita Utczas, Paola Dugo, Luigi Mondello.  
Flavors and Odors Analysis (Chapter 18) in Chemical Analysis of Food, 2e. Yolanda Picò (Ed) pp. 697-728. ISBN 9780128132661 (2020 Elsevier)  
Book chapter
28. Soukaina Hrichi, Raja Chaabane-Banaoues, Daniele Giuffrida, Domenica Mangraviti, Yassine Oulad El Majdoub, Francesca Rigano, Luigi Mondello, Hamouda Babba, Zine Mighri, Francesco Cacciola.  
Effect of seasonal variation on the chemical composition, antifungal and antioxidant activities from *Convolvulus althaeoides* L. leaves extracts  
Arab. J. Chem. 13 (2020) 5651-5668. ISSN 1878-5352 (June 2020, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
29. Natalizia Miceli, Andreana Marino, Aysegul Koroglu, Francesco Cacciola, Paola Dugo, Luigi Mondello, Maria Fernanda Taviano.  
Comparative study of the phenolic profile, antioxidant and antimicrobial activities of leaf extracts of five *Juniperus* L. (Cupressaceae) taxa growing in Turkey  
Nat. Prod. Res. 34 (2020) 1636-1641. ISSN 1478-6419. (June 2020, Taylor and Francis group, London, United Kingdom).

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Office phone +39-334-3612788. Fax +39-090-9080155. Home page: [www.chromaleont.it](http://www.chromaleont.it);  
Email: [chromaleont@chromaleont.it](mailto:chromaleont@chromaleont.it)



Research article

30. Katia Arena, Giuseppe Brancato, Francesco Cacciola, Francesco Crea, Salvatore Cataldo, Concetta De Stefano, Sofia Gama, Gabriele Lando, Demetrio Milea, Luigi Mondello, Alberto Pettignano, Winfried Plass, Silvio Sammartano.  
8-Hydroxyquinoline-2-carboxylic acid as possible molybdophore: a multitechnique approach to define its chemical speciation, coordination and sequestering ability in aqueous solution.  
Biomolecules 10, 2020, 930. ISSN 2218-273X (June 2020, MDPI AG, Basel, Switzerland)
31. Simona Pergolizzi, Valeria D'Angelo, Marialuisa Aragona, Paola Dugo, Francesco Cacciola, Gioele Capillo Giacomo Dugo, Eugenia Rita Lauriano.  
Evaluation of antioxidant and anti-inflammatory activity of green coffee beans methanolic extract in rat skin  
Nat. Prod. Res. 34 (2020) 1535-1541. ISSN 1478-6419. (June 2020, Taylor and Francis group, London, United Kingdom).  
Research article
32. Mariosimone Zoccali, Peter Q. Tranchida, and Luigi Mondello.  
A Lab-Developed Interface for Liquid-Gas Chromatography Coupling Based on the Use of a Modified Programmed-Temperature-Vaporizing Injector  
J. Chromatogr. A 1622 (2020) 461096. ISSN 0021-9673 (July 2020, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
33. Adela Pinteaa, Francisc Vasile Dulf, Andrea Bunea, Sonia Ancuța Socaci, Elena Andreea Pop, Vlăduț-Alexandru Opriță, Daniele Giuffrida, Francesco Cacciola, Giovanni Bartolomeo, Luigi Mondello.  
Carotenoids, fatty acids and volatile compounds in apricot cultivars from Romania - a chemometric approach  
Antioxidants 9 (2020) 562. (June 2020, MDPI AG, Basel, Switzerland)  
Research article
34. Ivan Aloisi, Mariosimone Zoccali, Paola Dugo, Peter Q. Tranchida, Luigi Mondello.  
Fingerprinting of the unsaponifiable fraction of vegetable oils by using cryogenically-modulated comprehensive two-dimensional gas chromatography-high resolution time-of-flight mass spectrometry  
Food Anal. Meth. 13 (2017) 1523-1529. ISSN 1936-9751 (July 2020, Springer, Berlin, Heidelberg).  
Research article
35. Ayoub Kounnoun, Mohamed El Maadoudi, Francesco Cacciola, Luigi Mondello, Hajar Bougtai, Naoual Alahlah, Nadia Amajoud, Aicha El Baaboua, Adnane Louajri.

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Development and validation of a high-performance liquid chromatography method for the determination of histamine in fish samples using fluorescence detection with pre-column derivatization

Chromatographia 83 (2020) 893-901. ISSN 009-5893 (July 2020, Vieweg Publishing, Wiesbaden, Germany).

Research article

36. Soukaina Hrichi, Francesca Rigano, Raja Chaabane-Banaoues, Yassine Oulad El Majdoub, Domenica Mangraviti, Davide Di Marco, Hamouda Babba, Paola Dugo, Luigi Mondello, Zine Mighri, Francesco Cacciola.

Identification of Fatty acid, Lipid and Phenol compounds from *Prunus armeniaca* L. kernel extracts

Foods 9,2020, 896. ISSN 2304-8158. (July 2020, MDPI AG, Basel, Switzerland).

Research article

37. Chiara Fanali, Susanna Della Posta, Laura Dugo, Alessandra Gentili, Luigi Mondello, Laura De Gara.

Choline-chloride and betaine-based deep eutectic solvents for green extraction of nutraceutical compounds from spent coffee ground

J. Pharm. Biomed. Anal. 189, 2020, 113421. ISSN 0731-7085

(September 2020, Elsevier, B.V., Amsterdam, The Netherlands).

Research article

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Email: [chromaleont@chromaleont.it](mailto:chromaleont@chromaleont.it)