

N°	LIST OF PUBLISHED PAPERS	I.F. 2020
1	<p>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</p>	6.312
2	<p>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 <i>Eugenia uniflora</i> 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</p>	3.797
3	<p>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</p>	12.296
4	<p>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</p>	12.296
5	<p>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 &amp; Sons LTD, West Sussex, UK).            Research article</p>	2.576

- 6** Francesca Rigano, Domenica Mangraviti, Sara Stead, Nathaniel Martin, Davy Petit, Paola Dugo, Luigi Mondello **4.142**  
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
- 7** Yassine Oulad El Majdoub, Mohammed Diouri, Paola Arena, Adriana Arigò, Francesco Cacciola, Francesca Rigano, Paola Dugo, Luigi Mondello **2.998**  
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
- 8** Imane Haoujar, Francesco Cacciola, Jamal Abrini, Domenica Mangraviti, Daniele Giuffrida, Yassine Oulad El Majdoub, Ayoub Kounoun, Natalizia Miceli, Maria Fernanda Taviano, Luigi Mondello, Francesca Rigano, Nadia Skali Senhaji **4.411**  
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
- 9** Mariosimone Zoccali, Barbara Giocastro, Ivana L. Bonaccorsi, Alessandra Trozzi, Peter Q. Tranchida, Luigi Mondello **4.350**  
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
- 10** Daniella C. Murador, Fabio Salafia, Mariosimone Zoccali, Paula L.G. Martins, Antonio G. Ferreira, Paola Dugo, Luigi Mondello, Veridiana V. de Rosso, Daniele Giuffrida **6.312**  
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

- 11** Francesca Rigano, Marina Russo, Adriana Arigò, P. Dugo, L. Mondello **4.759**  
Combining Linear Retention Index and Electron Ionization Mass Spectrometry for a Reliable Identification in Nano Liquid Chromatography  
J. Chromatogr. A 1610 (2020) 460581. ISSN: 0021-9673 (January 2020, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
- 12** Rocío Gallego, Katia Arena, Paola Dugo, Luigi Mondello, Elena Ibáñez, Miguel Herrero **4.142**  
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. Bioanal. Chem. 412 (2020) 589-599. ISSN 1618-2650. (January 2020, Springer, New York, USA).  
Research article
- 13** Giuseppe Micalizzi, Emanuela Ragosta, Sara Farnetti, Paola Dugo, Peter Q. Tranchida, Luigi Mondello, Francesca Rigano **4.142**  
Rapid and miniaturized qualitative and quantitative gas chromatography profiling of human blood fatty acids  
Anal. Bioanal. Chem. 412 (2020) 2327–2337 (2020). . ISSN 1618-2650. (January 2020, Springer, New York, USA).  
Research article
- 14** Mariosimone Zoccali, Daniele Giuffrida, Roberta Granese, Fabio Salafia, Paola Dugo, Luigi Mondello **4.142**  
Free apocarotenoids and apocarotenoids esters determination in human colostrum  
Anal. Bioanal. Chem. 412 (2020) 1335-1342. ISSN 1618-2650. (February 2020, Springer, New York, USA).  
Research article

- 15** Zied Zarai, Ahlem Edahech, Francesca Rigano, Marianna Oteri, Giuseppe Micalizzi, Luigi Mondello, Francesco Cacciola **4.759**  
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
- 16** Katia Arena, Francesca Rigano, Domenica Mangraviti, Francesco Cacciola, Francesco Occhiuto, Paola Dugo and Luigi Mondello **4.411**  
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
- 17** Katia Arena, Francesco Cacciola, Laura Dugo, Paola Dugo, Luigi Mondello **4.411**  
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
- 18** 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 **4.411**  
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
- 19** Ivan Aloisi, Tiago Schena, Barbara Giocastro, Mariosimone Zoccali, Peter Q. Tranchida, Elina Bastos Caramão and Luigi Mondello **6.558**  
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).

Reserch article

- 20** Laura Dugo, Marina Russo, Francesco Cacciola, Filippo Mandolfino, Fabio Salafia, Alessandra Vilmercati, Chiara Fanali, Monica Casal, Laura De Gara, Paola Dugo, Luigi Mondello, Francesca Rigano **3.366**  
Determination of the Phenol and Tocopherol Content in Italian High-Quality Extra-Virgin Olive Oils by Using LC-MS and Mulivariate Data Analysis  
Food Anal. Meth. 13 (2020) 1027-1041. ISSN: 1618-2650. (April 2020, Springer, New York, USA).  
Research article
- 21** Peter Q. Tranchida, Luigi Mondello **0**  
“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
- 22** Peter Q. Tranchida, Mariosimone Zoccali, Luigi Mondello **0**  
“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
- 23** Peter Q. Tranchida, Luigi Mondello **0**  
“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
- 24** Paola Donato, Paola Arena, Luigi Mondello **0**  
“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

- 25** Francesco Cacciola, Domenica Mangraviti, Luigi Mondello, Paola Dugo **0**  
 “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
- 26** Peter Q. Tranchida, Luigi Mondello **0**  
 “Detectors and basic data analysis”  
 In “Basic multidimensional gas chromatography”  
 N.H. Snow (Ed) pp. 205-227  
 ISBN 9780128137451 (2020 Academic Press)  
 Book chapter
- 27** Ivan Aloisi, Mariosimone Zoccali, Peter Q. Tranchida and Luigi Mondello **2.777**  
 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). ISSN 2297-8739 (May 2020, MDPI AG, Basel, Switzerland)  
 Research article
- 8** Katia Arena, Francesco Cacciola, Francesca Rigano, Paola Dugo, Luigi Mondello **3.645**  
 Evaluation of matrix effect in one-dimensional and comprehensive two-dimensional 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
- 29** Francesca Rigano, Marianna Oteri, Giuseppe Micalizzi, Domenica Mangraviti, Paola Dugo, Luigi Mondello **3.645**  
 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



- 30** Francesco Cacciola, Francesca Rigano, Paola Dugo, Luigi Mondello **12.296**  
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
- 31** Jitka Klikarová, Lenka Česlová, Petra Kalendová, Paola Dugo, Luigi Mondello., **2.998**  
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. (June 2020, Springer, New York, USA).  
Research article
- 32** Soukaina Hrichi, Raja Chaabane-Banaoues, Daniele Giuffrida, Domenica Mangraviti, Yassine Oulad El Majdoub, Francesca Rigano, Luigi Mondello, Hamouda Babba, Zine Mighri, Francesco Cacciola **5.165**  
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
- 33** 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 **4.879**  
8-Hydroxyquinoline-2-carboxylic acid as possible molybdophore: a multi-technique 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)
- 35** Mariosimone Zoccali, Peter Q. Tranchida, and Luigi Mondello **4.759**  
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

- 36** 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 **3.366**
- 37** Ayoub Kounnoun, Mohamed El Maadoudi, Francesco Cacciola, Luigi Mondello, Hajar Bougtai, Naoual Alahlah, Nadia Amajoud, Aicha El Baaboua, Adnane Louajri.  
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 **2.044**
- 38** 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 **4.350**
- 39** Tania M. G. Salerno, Paola Donato, Giampietro Frison, Luca Zamengo, Luigi Mondello  
Gas Chromatography - Fourier Transform Infrared Spectroscopy for Unambiguous Determination of Illicit Drugs: a Proof of Concept  
Frontiers in Chemistry, 8:624, 2020. (July 2020, MDPI AG, Basel, Switzerland).  
Research article **5.221**
- 40** Hafssa El Cadi, Asmae El Cadi, Ayoub Kounnoun, Yassine Oulad El Majdoub, Miguel Palma Iovillo Jamal Brigui, Paola Dugo, Luigi Mondello, Francesco Cacciola  
Wild strawberry (Arbutus unedo): Phytochemical screening and antioxidant properties of fruits collected in northern Morocco  
Arab. J. Chem. 13 (2020) 6299-6311. ISSN 1878-5352 (August 2020, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article **5.165**



- 41** Archimede Rotondo, Francesca Rigano, Luigi Mondello **2.679**  
Comprehensive chemical characterization of the Pistacia vera fruits by an innovative NMR approach  
Appl. Sci. 10 (2020) 5523. (August 2020, MDPI AG, Basel, Switzerland)  
Research article
- 42** Anna Róžańska, Marina Russo, Francesco Cacciola, Fabio Salafia, Paola Dugo, Luigi Mondello **4.350**  
Nutraceutical properties of Italian extra virgin olive oils from various sources by using LC-MS and multivariate data analysis  
Foods 9 (2020) 1120. ISSN 2304-8158. (August 2020, MDPI AG, Basel, Switzerland).  
Research article
- 43** Jozef Kováčik, Giuseppe Micalizzi, Sławomir Dresler, Magdalena Wójciak-Kosior, Emanuela Ragosta, Luigi Mondello **3.013**  
The opposite nitric oxide modulators do not lead to the opposite changes of metabolites under cadmium excess  
J. Plant Physiol. 252, 2020, 153228. ISSN 0176-1617. (September 2020, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
- 44** Barbara Giocastro, Ivan Aloisi, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello **1.482**  
Cryogenic- and Flow-Modulation Comprehensive Two-Dimensional Gas Chromatography–Mass Spectrometry: Obtaining Similar Chromatographic Performances  
LCGC Eur. 33 2020, 172-178. ISSN 1471-6577 (October 2020, Multimedia UK, Cheshire, UK).  
Research article
- 45** Chiara Fanali, Susanna Della Posta, Lauer Dugo, Marina Russo, Alessandra Gentili, Luigi Mondello, Laura De Gara **3.535**  
Application of deep eutectic solvents for the extraction of phenolic compounds from extra-virgin olive oil  
Electrophoresis 41 2020, 1752–1759. ISSN: 1522-2683. (October 2020, Wiley-VCH, Weinheim, Germany).  
Research article

- 46** Stefany Grutzmann Arcari, Katia Arena, Jeferson Kolling, Paloma Rocha, Paola Dugo, Luigi Mondello, Francesco Cacciola Polyphenolic compounds with biological activity in guabiroba (*Campomanesia xanthocarpa* Berg) by comprehensive two- dimensional liquid chromatography  
Electrophoresis 41 2020, 1784–1792. ISSN: 1522-2683. (October 2020, Wiley-VCH, Weinheim, Germany).  
Research article **3.535**
- 47** Soukaina Hrichi, Raja Chaabane-Banaoues, Sihem Bayar, Guido Flamini, Yassine Oulad El Majdoub, Domenica Mangraviti, Luigi Mondello, Ridha El Mzoughi, Hamouda Babba, Zine Mighri, Francesco Cacciola  
Botanical and genetic identification followed by investigation of chemical composition and biological activities on the *Scabiosa atropurpurea* L. stem from Tunisian flora  
Molecules 25 (2020) 5032. ISSN 1420-3049 (October 2020, MDPI AG, Basel, Switzerland).  
Research article **4.411**
- 48** Imane Haoujar, Francesco Cacciola, Manuel Manchado, Jamal Abrini, Mohammed Haoujar, Kamal Chabbaki, Marianna Oteri, Francesca Rigano, Domenica Mangraviti, Luigi Mondello, Hicham Chairi, Nadia Skali Senhaji  
Isolation of microalgae from Mediterranean seawater and production of lipids in the cultivated species  
Foods 9 (2020) 1601. ISSN 2304-8158. (November 2020, MDPI AG, Basel, Switzerland).  
Research article **4.350**
- 49** Physico-Chemical and Phytochemical Characterization of Moroccan Wild Jujube “*Zizyphus lotus* (L.)” Fruit Crude Extract and Fractions Hafssa El Cadi, Hajar EL Bouzidi, Ginane Selama, Asmae El Cadi, Btissam Ramdan, Yassine Oulad El Majdoub, Filippo Alibrando, Paola Dugo, Luigi Mondello, Asmae Fakhri Lanjri, Jamal Brigui, Francesco Cacciola  
Molecules 25 (2020) 5037. ISSN 1420-3049 (November 2020, MDPI AG, Basel, Switzerland).  
Research article **4.411**
- 50** Daniele Giuffrida, Mariosimone Zoccali, Luigi Mondello  
Recent developments in the carotenoid and carotenoid derivatives chromatography-mass spectrometry analysis in food matrices  
TrAC-Trend Anal. Chem 132, 2020, 116047. ISSN 0165-9936. (November 2020, Elsevier, B.V., Amsterdam, The Netherlands).  
Review article **12.296**

- 51** Yassine Oulad El Majdoub, Filippo Alibrando, Francesco Cacciola, Katia Arena, Eleonora Pagnotta, Roberto Matteo, Laura Dugo, Paola Dugo, Luigi Mondello  
Chemical characterization of three accessions of *Brassica juncea* L. extracts from different plant tissues  
Molecules 25 (2020) 5421. ISSN 1420-3049 (November 2020, MDPI AG, Basel, Switzerland). **4.411**
- 52** Aziz Bouymajane, Yassine Oulad El Majdoub, Francesco Cacciola, Marina Russo, Fabio Salafia, Alessandra Trozzi, Fouzia Rhazi Filali, Paola Dugo, Luigi Mondello  
Characterization of phenolic compounds, vitamin E and fatty acids from monovarietal virgin olive oils of "Picholine marocaine" cultivar  
Molecules 25 (2020) 5428. ISSN 1420-3049 (November 2020, MDPI AG, Basel, Switzerland).  
Research article **4.411**
- 53** Zoccali, M., Giuffrida, D., Salafia, F., Rigano, F., Dugo, P. Casale, M., Mondello, L.  
Apocarotenoids profiling in different *Capsicum* species  
Food Chem. 334, 2021, 127595. 105, 771-783, 2007. ISSN 0308-8146. (January 2021, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article **7.514**
- 54** Giuseppe Micalizzi, Federica Vento, Filippo Alibrando, Danilo Donnarumma, Paola Dugo, Luigi Mondello  
Cannabis Sativa L.: a comprehensive review on the analytical methodologies for cannabinoids and terpenes characterization  
J. Chromatogr. A 1637 (2021) 461864. ISSN: 0021-9673 (January 2021, Elsevier, B.V., Amsterdam, The Netherlands).  
Review article **4.759**
- 55** Filippo Mandolino, Katia Arena, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Multidimensional liquid chromatography approaches for analysis of food contaminants  
J. Sep. Sci. 43 (2020) 1773-1780. ISSN 1615-306. (January 2021, Wiley-VCH, Weinheim, Germany).  
Review article **3.645**

- 56** G. Micalizzi, K. Huszti, Z. Palinkas, F. Mandolfino, D.R. Martose, P. Dugo, L. Mondello, M. Utczas **3.345**  
Reliable identification and quantification of anabolic androgenic steroids in dietary supplements by using gas chromatography coupled to triple quadrupole mass spectrometry  
Drug Test. Anal. 13 (2020) 128-139. ISSN 1942-7611. (January 2021, Wiley-VCH, Weinheim, Germany).  
Research article
- 57** Giampietro Frison, Flavio Zancanaro, Samuela Frasson, Laura Quadretti, Michele Agnati, Francesca Vlassich, Giuseppe Gagliardi, Tania M. G. Salerno, Paola Donato, Luigi Mondello **5.221**  
Analytical Characterization of 3-MeO-PCP and 3-MMC in Seized Products and Biosamples: Role of LC-HRAM-Orbitrap-MS and Solid Deposition GC-FTIR  
Front. Chem. 8 (2021) 618339. ISSN 2296-2646 (February 2021, Frontiers Media S.A. Lausanne, Switzerland)  
Research article
- 58** Fadoua Asraoui, Ayoub Kounoun, Hafssa El Cadi, Francesco Cacciola, Yassine Oulad El Majdoub, Filippo Alibrando, Filippo Mandolfino, Paola Dugo, Luigi Mondello, Adnane Louajri **4.411**  
Phytochemical Investigation and Antioxidant Activity of Globularia alypum L.  
Molecules 26 (2021) 759. ISSN 1420-3049 (February 2021, MDPI AG, Basel, Switzerland).  
Research article
- 59** Emanuela Trovato, Adriana Arigò, Federica Vento, Giuseppe Micalizzi, Paola Dugo, Luigi Mondello **2.777**  
Influence of Citrus Flavor Addition in Brewing Process: Characterization of the Volatile and Non-Volatile Profile to Prevent Frauds and Adulterations  
Separations 8 (2021) 18. ISSN 1420-3049 (February 2021, MDPI AG, Basel, Switzerland).  
Research article
- 60** Domenica Mangraviti, Francesca Rigano, Adriana Arigò, Paola Dugo, Luigi Mondello **4.952**  
Valorization of Italian Extra Virgin Olive Oils by Rapid Evaporative Ionization Mass Spectrometry  
LWT Food Sci. Technol. 138 (2021) 110715. ISSN 0023-6438 (March 2021, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article

- 61** Francesca Rigano, Adriana Arigò, Marianna Oteri, Roberta La Tella, Paola Dugo, Luigi Mondello **4.759**  
The Retention Index Approach in Liquid Chromatography: An Historical Review and Recent Advances  
J. Chromatogr. A 1640 (2021) 461963. ISSN: 0021-9673 (March 2021, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
- 62** Development of a Novel Microwave Distillation Technique for the Isolation of Cannabis Sativa L. Essential Oil and Gas Chromatography Analyses for the Comprehensive Characterization of Terpenes and Terpenoids, Including Their Enantio-Distribution **4.411**  
Giuseppe Micalizzi, Filippo Alibrando, Federica Vento, Emanuela Trovato, Mariosimone Zoccali, Paolo Guarnaccia, Paola Dugo, Luigi Mondello  
Molecules 26 (2021) 1588. ISSN 1420-3049 (March 2021, MDPI AG, Basel, Switzerland).  
Research article
- 63** Adriana Arigò, Mariosimone Zoccali, Danilo Sciarrone, Peter Q. Tranchida, Paola Dugo, and Luigi Mondello **0**  
Analysis of Essential Oils (Chapter 7) in Handbook of Essential Oils III Edition, edited by Husnu Can Baser & Gerhard Buchbauer pp. 191-221. ISBN: 9780815370963 (hbk) ISBN: 9781351246460 (ebk) (2021 CRC Press, Taylor & Francis Group)  
Book chapter
- 64** Emanuela Trovato, Giuseppe Micalizzi, Paola Dugo, Margita Utczás, and Luigi Mondello **0**  
Use of linear retention indices in GC/MS libraries for essential oil analysis (Chapter 8) in Handbook of Essential Oils III Edition, edited by Husnu Can Baser & Gerhard Buchbauer pp. 229-249. ISBN: 9780815370963 (hbk) ISBN: 9781351246460 (ebk) (2021 CRC Press, Taylor & Francis Group)  
Book chapter
- 65** Ivan Aloisi, Barbara Giocastro, Antonio Ferracane, Tania M.G. Salerno, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello **4.759**  
Preliminary observations on the use of a novel low duty cycle flow modulator for comprehensive two-dimensional gas chromatography  
J. Chromatogr. A 1643 (2021) 462076. ISSN 0021-9673 (April 2021, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article

- 66** Francesco Cacciola, Katia Arena, Filippo Mandolino, Danilo Donnarumma, Paola Dugo, Luigi Mondello **4.759**  
 RP-LC×RP-LC vs. HILIC×RP-LC systems for the elucidation of the polyphenolic content of food and natural products  
 J. Chromatogr. A 1645 (2021) 462129. ISSN 0021-9673 (May 2021, Elsevier, B.V., Amsterdam, The Netherlands).  
 Review article
- 67** Francesca Rigano, Paola Arena, Domenica Mangraviti, Danilo Donnarumma, Paola Dugo, Paola Donato, Luigi Mondello, Giuseppe Micalizzi **4.759**  
 Identification of high value-generating molecules from the wastes of tuna fishery industry by LC and GC hyphenated techniques with automated sample preparation  
 J. Sep. Sci. 44 (2021) 1571-1580. ISSN 1615-306. (April 2021, Wiley-VCH, Weinheim, Germany).  
 Research article
- 68** Antonio Ferracane, Mariosimone Zoccali, Francesco Cacciola, Tania Maria Grazia Salerno, Peter Q. Tranchida, Luigi Mondello **4.759**  
 Determination of multi-pesticide residues in vegetable products using a “reduced-scale” quechers method and flow-modulated comprehensive two-dimensional gas chromatography-triple quadrupole mass spectrometry  
 J. Chromatogr. A 1645 (2021) 462126. . ISSN 0021-9673 (May 2021, Elsevier, B.V., Amsterdam, The Netherlands).  
 Research article
- 69** Barbara Giocastro, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello **3.645**  
 Evaluation of different internal-diameter coated modulation columns within the context of solid state modulation  
 J. Sep. Sci. 44 (2021) 1923-1930. ISSN 1615-306. (April 2021, Wiley-VCH, Weinheim, Germany).  
 Research article
- 70** Hafssa El Cadi, Hajar El Bouzidi, Ginane Selama, Btissam Ramdan, Yassine Oulad El Majdoub, Filippo Alibrando, Katia Arena, Miguel Palma Lovillo, Jamal Brigui, Luigi Mondello, Francesco Cacciola, Tania M. G. Salerno **4.411**  
 Elucidation of antioxidant compounds in Moroccan *Chamaerops humilis* L. fruits by GC-MS and HPLC-MS techniques  
 Molecules 16 (2021) 2710. ISSN 1420-3049 (May 2021, MDPI AG, Basel, Switzerland).  
 Research article
- 71** Fadoua Asraoui, Ayoub Kounoun, Francesco Cacciola, Fouad El Mansouri, Imad Kabach, Yassine Oulad El Majdoub, Filippo Alibrando, Katia Arena, Emanuela Trovato, Luigi Mondello, Adnane Louajri **4.411**



Phytochemical profile, antioxidant capacity,  $\alpha$ -amylase and  $\alpha$ -glucosidase inhibitory potential of wild Moroccan *Inula viscosa* (L.) Aiton leaves  
*Molecules* 26 (2021) 3134. ISSN 1420-3049 (May 2021, MDPI AG, Basel, Switzerland).

Research article

- 72** Mariosimone Zoccali, Peter Q. Tranchida, Tania M.G. Salerno, Luigi Mondello **4.759**  
Use of a low-cost, lab-made, Y-interface for liquid-gas chromatography coupling for the analysis of mineral oils in food samples  
*J. Chromatogr. A* 1648 (2021) 462191. ISSN 0021-9673 (July 2021, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
- 73** Adriana Arigò, Paola Dugo, Francesca Rigano, Luigi Mondello **4.759**  
Linear Retention Index Approach applied to Liquid Chromatography coupled to Triple Quadrupole Mass Spectrometry to determine Furocoumarins at Trace Level in Finished Cosmetics  
*J. Chromatogr. A* 1649 (2021) 462183. ISSN 0021-9673 (July 2021, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
- 74** Hafssa El Cadi, Hajar El Bouzidi, Ginane Selama, Btissam Ramdan, Yassine Oulad El Majdoub, Filippo Alibrando, Jamal Brigui, Ammar B. Altemimi, Paola Dugo, Luigi Mondello, Francesco Cacciola Characterization of *Rubus fruticosus* L. berries growing wild in Morocco: Phytochemical screening, antioxidant activity and chromatography analysis **2.998**  
*Eur. Food Res. Technol.* 247 (2021) 1689-1699. ISSN 1438-2377. (July 2021, Springer, New York, USA).  
Research article
- 75** Natalizia Miceli, Emilia Cavò, Vivienne Spadaro, Francesco Maria Raimondo, Salvatore Ragusa, Francesco Cacciola, Yassine Oulad El Majdoub, Katia Arena, Luigi Mondello, Concetta Conduro, Fabrizio Cincotta, Maria Fernanda Taviano Phytochemical profile and antioxidant activity of the aerial part extracts from *Matthiola incana* subsp. *rupestris* and subsp. *Pulchella* (Brassicaceae) endemics to Sicily **2.408**  
*Chem. Biodivers.* 18, 2021, e2100167. ISSN: 1612-1880. (July 2021, John Wiley & Sons, Ltd, West Sussex, UK).  
Research article
- 76** Yassine Oulad El Majdoub, Giovanna Ginestra, Giuseppina Mandalari, Paola Dugo, Luigi Mondello, Francesco Cacciola **5.717**

The digestibility of *Hibiscus sabdariffa* L. polyphenols using an in vitro human digestion model and evaluation of their antimicrobial activity  
Nutrients 13, 2021, 2360. ISSN 2072-6643. (July 2021, MDPI AG, Basel, Switzerland).  
Research article

- 77 Maria Fernanda Taviano, Emilia Cavò, Vivienne Spadaro, Francesco Maria Raimondo, Vincenzo Musolino, Francesco Cacciola, Yassine Oulad El Majdoub, Luigi Mondello, Concetta Conduro, Fabrizio Cincotta, Antonella Verzera, Natalizia Miceli **4.411**  
Phytochemical constituents, antioxidant activity and toxicity assessment of the aerial part extracts from the infraspecific taxa of *Matthiola fruticulosa* (Brassicaceae) endemic to Sicily  
Molecules 26, 2021, 4114. ISSN 1420-3049 (July 2021, MDPI AG, Basel, Switzerland).  
Research article
- 78 Adriana Arigò, Francesca Rigano, Marina Russo, Emanuela Trovato, Paola Dugo, Luigi Mondello Dietary Intake of Coumarins and Furocoumarins through Citrus Beverages: A Detailed Estimation by a HPLC-MS/MS Method Combined with the Linear Retention Index System **4.350**  
Foods 10, 2021, 1533. ISSN 2304-8158. (July 2021, MDPI AG, Basel, Switzerland).  
Research article
- 79 Amandine Dispas, Adrian Clarke, Alexandre Grand-Guillaume Perrenoud, Luca Gioacchino Losacco, Jean-Luc Veuthey, Quentin Gros, Jérémy Molineau, Angéline Noireau, Caroline West, Fabio Salafia, Mariosimone Zoccali, Luigi Mondello, Amber Guillen, Jenny Wang, Kelly Zhang, Philipp Jochems, Gesa Schaad, Kosuke Nakajima, Shinnosuke Horie, Jan Joseph, Maria Kristina Parr, Pierre Billemont, Antoni Severino, Sonja Schneider, Edgar Naegele, Daniel Kutscher, Rick Wikfors, Regina Black, Lee Ingvaldson, Jimmy Oliveira Da Silva, Raffael Bennett, Erik L. Regalado, Thi Phuong Thuy Hoang, David Touboul, Yana Nikolova, Mariana Kamenova-Nacheva, Vladimir Dimitrov, Blair K. Berger, Kevin A. Schug, Solène Kerviel-Guillon, Fabien Mauge, Masatomo Takahashi, Yoshihiro Izumi, Takeshi Bamba, Florent Rouvière, Sabine Heinisch, Davy Guillarme, Philippe Hubert Interlaboratory study of a Supercritical Fluid Chromatography method for the determination of pharmaceutical impurities: evaluation of multi-systems reproducibility **3.935**  
J. Pharm. Biomed. Anal. 203 (2021) 114206. ISSN 0731-7085. (September 2021, Elsevier, B.V., Amsterdam, The Netherlands).

Research article

- 80** Imane Maliki, Imane Es-safi, Abdelfattah El Moussaoui, Hamza Mechchate, Yassine Oulad El Majdoub, Aziz Bouymajane, Francesco Cacciola, Luigi Mondello, Khalid Elbadaoui **3.935**  
Salvia officinalis and Lippia triphylla: chemical characterization and evaluation of antidepressant-like activity  
J. Pharm. Biomed. Anal. 203 (2021) 114207. ISSN 0731-7085. (September 2021, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
- 81** Danilo Sciarrone, Lorenzo Cucinotta, Gemma De Grazia, Tania Maria Grazia Salerno, Danilo Donnarumma, Paola Donato, Luigi Mondello Reliability of monodimensional and multidimensional GC-C-IRMS data: a critical evaluation for terpene analysis on apolar, polar and low-bleed ionic liquid stationary phases **4.759**  
J. Chromatogr. A 1655 (2021) 462473. ISSN 0731-7085. (October 2021, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
- 82** Carmela Maria Montone, Sara Elsa Aita, Giuseppe Cannazza, Chiara Cavaliere, Andrea Cerrato, Cinzia Citti, Luigi Mondello, Susy Piovesana, Aldo Laganà, Anna Laura Capriotti **6.057**  
Targeted and Untargeted Characterization of Underivatized Policosanols in Hemp Inflorescence by Liquid Chromatography-High Resolution Mass Spectrometry  
Talanta 235 (2021) 122778. ISSN 0039-9140. (December 2021, Elsevier, B.V., Amsterdam, The Netherlands).  
Research article
- 83** Tania Maria Grazia Salerno, Carmelo Coppolino, Paola Donato, Luigi Mondello **4.142**  
The on-line coupling of liquid chromatography to Fourier transform infrared spectroscopy using a solute-deposition interface: a proof of concept  
In press Anal. Bioanal. Chem.  
Research article

**I.F. 2020**  
**352,510**