

Published articles:

Ancillotti, C., Ciofi, L., Pucci, D., Sagona, E., Giordani, E., Biricolti, S., Gori, M., Petrucci, W.A., Giardi, F., Bartoletti, R., Chiuminatto, U., Orlandini, S., Mosti, S., Del Bubba, M.

Polyphenolic profiles and antioxidant and antiradical activity of Italian berries from *Vaccinium myrtillus* L. and *Vaccinium uliginosum* L. subsp. *gaultherioides* (Bigelow) S.B. Young

(2016) *Food Chemistry*, 204, pp. 176-184.

Ciofi, L., Ancillotti, C., Chiuminatto, U., Fibbi, D., Pasquini, B., Bruzzoniti, M.C., Rivoira, L., Del Bubba, M.

Fully automated on-line solid phase extraction coupled to liquid chromatography-tandem mass spectrometry for the simultaneous analysis of alkylphenol polyethoxylates and their carboxylic and phenolic metabolites in wastewater samples

(2016) *Analytical and Bioanalytical Chemistry*, 408 (12), pp. 3331-3347.

Guedes-Alonso, R., Ciofi, L., Sosa-Ferrera, Z., Santana-Rodríguez, J.J., Del Bubba, M., Kabir, A., Furton, K.G.

Determination of androgens and progestogens in environmental and biological samples using fabric phase sorptive extraction coupled to ultra-high performance liquid chromatography tandem mass spectrometry

(2016) *Journal of Chromatography A*, 1437, pp. 116-126.

Bruzzoniti, M.C., De Carlo, R.M., Rivoira, L., Del Bubba, M., Pavani, M., Riatti, M., Onida, B.

Adsorption of bentazone herbicide onto mesoporous silica: application to environmental water purification

(2016) *Environmental Science and Pollution Research*, 23 (6), pp. 5399-5409.

Ancillotti, C., Bogani, P., Biricolti, S., Calistri, E., Checchini, L., Ciofi, L., Gonnelli, C., Del Bubba, M.

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(2015) *Plant Physiology and Biochemistry*, 97, pp. 52-61. Cited 3 times.

De Carlo, R.M., Rivoira, L., Ciofi, L., Ancillotti, C., Checchini, L., Del Bubba, M., Bruzzoniti, M.C.

Evaluation of different QuEChERS procedures for the recovery of selected drugs and herbicides from soil using LC coupled with UV and pulsed amperometry for their detection

(2015) *Analytical and Bioanalytical Chemistry*, 407 (4), pp. 1217-1229. Cited 3 times.

Orlandini, S., Pasquini, B., Caprini, C., Del Bubba, M., Pinzauti, S., Furlanetto, S.

Analytical Quality by Design in pharmaceutical quality assurance: Development of a capillary electrophoresis method for the analysis of zolmitriptan and its impurities

(2015) *Electrophoresis*, 36 (21-22), pp. 2642-2649.

Pasquini, B., Orlandini, S., Del Bubba, M., Bertol, E., Furlanetto, S.

The successful binomium of multivariate strategies and electrophoresis for the Quality by Design separation of a class of drugs: The case of triptans

(2015) *Electrophoresis*, 36 (21-22), pp. 2650-2657.

Orlandini, S., Pasquini, B., Del Bubba, M., Pinzauti, S., Furlanetto, S.

Quality by design in the chiral separation strategy for the determination of enantiomeric impurities: Development of a capillary electrophoresis method based on dual cyclodextrin systems for the analysis of levosulpiride

(2015) *Journal of Chromatography A*, 1380, pp. 177-185. Cited 5 times.

Gonnelli, C., Cacioppo, F., Giordano, C., Capozzoli, L., Salvatici, M.C., Colzi, I., del Bubba, M., Ancillotti, C., Ristori, S.

Cucurbita pepo l. extracts as a versatile hydrotropic source for the synthesis of gold nanoparticles with different shapes

(2015) *Green Chemistry Letters and Reviews*, 8 (1), pp. 39-47. Cited 1 time.

Ciofi, L., Ancillotti, C., Chiuminatto, U., Fibbi, D., Checchini, L., Orlandini, S., Del Bubba, M.

Liquid chromatographic-tandem mass spectrometric method for the simultaneous determination of alkylphenols polyethoxylates, alkylphenoxy carboxylates and alkylphenols in wastewater and surface-water

(2014) *Journal of Chromatography A*, 1362, pp. 75-88. Cited 5 times.

Del Bubba, M., Checchini, L., Ciofi, L., Furlanetto, S., Lepri, L.

Direct resolution and quantitative analysis of flurbiprofen enantiomers using microcrystalline cellulose triacetate plates: Applications to the enantiomeric purity control and optical isomer determination in widely consumed drugs

(2014) *Biomedical Chromatography*, 28 (1), pp. 127-134. Cited 4 times.

Colzi, I., Rocchi, S., Rangoni, M., Del Bubba, M., Gonnelli, C.

Specificity of metal tolerance and use of excluder metallophytes for the phytostabilization of metal polluted soils: the case of *Silene paradoxa* L

(2014) *Environmental Science and Pollution Research*, 21 (18), pp. 10960-10969. Cited 1 time.

Cincinelli, A., Pieri, F., Martellini, T., Passaponti, M., Del Bubba, M., Del Vento, S., Katsoyiannis, A.A.

Atmospheric occurrence and gas-particle partitioning of PBDEs in an industrialised and urban area of Florence, Italy

(2014) *Aerosol and Air Quality Research*, 14 (4), pp. 1121-1130. Cited 11 times.

Bruzzoniti, M.C., Checchini, L., De Carlo, R.M., Orlandini, S., Rivoira, L., Del Bubba, M.

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(2014) *Analytical and Bioanalytical Chemistry*, 406 (17), pp. 4089-4116. Cited 39 times.

Del Bubba, M., Ancillotti, C., Checchini, L., Ciofi, L., Fibbi, D., Gonnelli, C., Mosti, S.

Chromium accumulation and changes in plant growth, selected phenolics and sugars of wild type and genetically modified *Nicotiana langsdorffii*

(2013) *Journal of Hazardous Materials*, 262, pp. 394-403. Cited 8 times.

Furlanetto, S., Orlandini, S., Pasquini, B., Del Bubba, M., Pinzauti, S.

Quality by Design approach in the development of a solvent-modified micellar electrokinetic chromatography method: Finding the design space for the determination of amitriptyline and its impurities

(2013) *Analytica Chimica Acta*, 802, pp. 113-124. Cited 12 times.

Del Bubba, M., Checchini, L., Cincinelli, A., Lepri, L.

Enantioseparations by thin-layer chromatography.

(2013) *Methods in molecular biology* (Clifton, N.J.), 970, pp. 29-43.

Fuoco, R., Bogani, P., Capodaglio, G., Del Bubba, M., Abollino, O., Giannarelli, S., Spiriti, M.M., Muscatello, B., Doumett, S., Turetta, C., Zangrando, R., Zelano, V., Buiatti, M.

Response to metal stress of *Nicotiana langsdorffii* plants wild-type and transgenic for the rat glucocorticoid receptor gene

(2013) *Journal of Plant Physiology*, 170 (7), pp. 668-675. Cited 8 times.

Ciofi, L., Fibbi, D., Chiuminatto, U., Coppini, E., Checchini, L., Del Bubba, M.

Fully-automated on-line solid phase extraction coupled to high-performance liquid chromatography-tandem mass spectrometric analysis at sub-ng/L levels of selected estrogens in surface water and wastewater

(2013) *Journal of Chromatography A*, 1283, pp. 53-61. Cited 18 times.

Del Bubba, M., Checchini, L., Lepri, L.

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(2013) *Analytical and Bioanalytical Chemistry*, 405 (2-3), pp. 533-554. Cited 14 times.

Del Bubba, M., Checchini, L., Cincinelli, A., Doumett, S., Lepri, L.

Enantiomeric resolution of chiral aromatic sulfoxides on non-commercial microcrystalline cellulose triacetate and commercial cellulose acetate plates

(2012) *Journal of Planar Chromatography - Modern TLC*, 25 (6), pp. 498-503. Cited 2 times.

Del Bubba, M., Checchini, L., Chiuminatto, U., Doumett, S., Fibbi, D., Giordani, E.

Liquid chromatographic/electrospray ionization tandem mass spectrometric study of polyphenolic composition of four cultivars of *Fragaria vesca* L. berries and their comparative evaluation

(2012) *Journal of Mass Spectrometry*, 47 (9), pp. 1207-1220. Cited 23 times.

Giannoni, M., Martellini, T., Del Bubba, M., Gambaro, A., Zangrando, R., Chiari, M., Lepri, L., Cincinelli, A.

The use of levoglucosan for tracing biomass burning in PM_{2.5} samples in Tuscany (Italy)

(2012) *Environmental Pollution*, 167, pp. 7-15. Cited 24 times.

Del Bubba, M., Checchini, L., Cincinelli, A., Lepri, L.

Enantiomeric resolution of chiral aromatic sulfoxides on non-commercial cellulose tribenzoate plates

(2012) *Journal of Planar Chromatography - Modern TLC*, 25 (3), pp. 214-219. Cited 3 times.

Colzi, I., Arnetoli, M., Gallo, A., Doumett, S., Del Bubba, M., Pignattelli, S., Gabbrielli, R., Gonnelli, C.

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(2012) *Environmental and Experimental Botany*, 78, pp. 91-98. Cited 23 times.

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Distribution and mass balance of hexavalent and trivalent chromium in a subsurface, horizontal flow (SF-h) constructed wetland operating as post-treatment of textile wastewater for water reuse

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Fibbi, D., Doumett, S., Colzi, I., Coppini, E., Pucci, S., Gonnelli, C., Lepri, L., Del Bubba, M.

Total and hexavalent chromium removal in a subsurface horizontal flow (h-SSF) constructed wetland operating as post-treatment of textile wastewater for water reuse
(2011) *Water Science and Technology*, 64 (4), pp. 826-831. Cited 7 times.

Colzi, I., Doumet, S., Del Bubba, M., Fornaini, J., Arnetoli, M., Gabbriellini, R., Gonnelli, C.
On the role of the cell wall in the phenomenon of copper tolerance in *Silene paradoxa* L.
(2011) *Environmental and Experimental Botany*, 72 (1), pp. 77-83. Cited 28 times.

Giordani, E., Doumet, S., Nin, S., Del Bubba, M.
Selected primary and secondary metabolites in fresh persimmon (*Diospyros kaki* Thunb.): A review of analytical methods and current knowledge of fruit composition and health benefits
(2011) *Food Research International*, 44 (7), pp. 1752-1767. Cited 20 times.

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Comparison of nutritional and nutraceutical properties in cultivated fruits of *Fragaria vesca* L. produced in Italy
(2011) *Food Research International*, 44 (5), pp. 1209-1216. Cited 10 times.

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Chiral separations and quantitative analysis of optical isomers on cellulose tribenzoate plates
(2011) *Journal of Chromatography A*, 1218 (19), pp. 2737-2744. Cited 9 times.

Doumet, S., Fibbi, D., Azzarello, E., Mancuso, S., Mugnai, S., Petruzzelli, G., del Bubba, M.
Influence of the application renewal of glutamate and tartrate on Cd, Cu, Pb and Zn distribution between contaminated soil and *paulownia tomentosa* in a pilot-scale assisted phytoremediation study
(2011) *International Journal of Phytoremediation*, 13 (1), pp. 1-17. Cited 8 times.

Articles in Preparation/Submitted:

Rossini, D., Ciofi, L., Ancillotti, C., Checchini, L., Bruzzoniti, M.C., Rivoira, L., Fibbi, D., Orlandini, S., Del Bubba, M.
Innovative combination of QuEChERS extraction with on-line solid phase extract purification and pre-concentration, followed by liquid chromatography-tandem mass spectrometry for the determination of nonsteroidal anti-inflammatory drugs and their metabolites in sewage sludge
Submitted to *Analytica Chimica Acta*.

Investigating the Feasibility of the Direct Injection Liquid Chromatographic Tandem Mass Spectrometric Analysis for the Determination of Perfluoro-Alkyl Acids in Different Water Matrices
In preparation.

Ancillotti, C., Ciofi, L., Checchini, L., Rossini, D., Chiuminatto, U., Stahl-Zeng, J., Furlanetto, S., Del Bubba, M.
Liquid chromatographic/electrospray ionization quadrupole/time of flight tandem mass spectrometric study of polyphenolic composition of different *Vaccinium* berry species and their comparative evaluation
In preparation.

Participation to Congresses:

17th International Symposium on Separation Science, Cluj-Napoca, 5-9 September 2011, oral communication: M. Del Bubba, L. Checchini, A. Cincinelli, S. Doumett, L. Lepri. "Enantiomeric Resolution of Aromatic Sulfoxide Derivatives by Chiral Planar Chromatography".

2nd MS Food Day, Trieste, 19-21 October 2011, oral communication: S. Doumett, D. Fibbi, U. Chiuminatto, E. Giordani, M. del Bubba. "Determination of the polyphenolic fraction and the antiradical activity of *Fragaria vesca* extracts".

XXIV Congresso Nazionale della Società Chimica Italiana (XXIV National Congress of the Italian Chemical Society), Lecce, 11-16 September 2011, oral communication: S. Doumett, D. Fibbi, E. Coppini, A. Cincinelli, L. Lepri, L. Checchini, M. Del Bubba. "Total suspended solids (TSS) and polycyclic aromatic hydrocarbons (PAHs) removal from industrial/civil wastewater: a comparison between different wastewater treatments".

11th International Conference on the Biogeochemistry of Trace Elements, Florence, 3-7 July 2011, oral communication: D. Fibbi, S. Doumett, E. Coppini, C. Gonnelli, M. Del Bubba. "Fate of Hexavalent (Cr(VI)) and Trivalent (Cr(III)) Chromium in a Subsurface Horizontal Flow Constructed Wetland as Polishing Stage for Water Reuse within a Textile Industrial District".

29th International Symposium on Chromatography, 9-13 September 2012, Toruń, Poland, oral communication: M. Del Bubba, L. Ciofi, U. Chiuminatto, L. Checchini, D. Fibbi. "HPLC-MS/MS analysis of selected pharmaceutical products in wastewater samples in Italy".

XIII Congresso nazionale di Chimica Dell'ambiente E Dei Beni Culturali (National Congress of Environmental Chemistry and Cultural Heritage), 10-14 September 2012, Taranto, oral communication: D. Fibbi, L. Ciofi, L. Checchini, E. Coppini, C. Gonnelli, M. Del Bubba. "Studio della distribuzione ed efficienza di rimozione di cromo trivalente ed esavalente in un impianto di fitodepurazione operante come post-trattamento di reflui industriali.".

XXIV Congresso della Divisione di Chimica Analitica della Società Chimica Italiana (XXIV Analytical Chemistry division of the Italian Chemical Society, 15-19 September 2013, Sestri Levante oral communication: L. Ciofi, M. Del Bubba, C. Ancillotti, L. Checchini. "On-line SPE-LC-MS/MS analysis of selected Endocrine Disruptor Compounds (EDCs) in surface water and wastewater samples in Italy".

19th Symposium of Separation Sciences, Poreč, Croatia, 25-28 September 2013, oral communication: L. Ciofi, L. Checchini, E. Coppini, M. Del Bubba. "Determination of alkylphenols polyethoxylates (APEOs) and alkylphenols (APs) in wastewater and surface-water through a unique HPLC-ESI-MS/MS method".

38th International Symposium on Capillary Chromatography, Riva del Garda, 20-23 May 2014 oral communication: L. Ciofi, L. Checchini, C. Ancillotti, U. Chiuminatto, E. Coppini, M. Del Bubba. "Simultaneous determination of alkylphenols polyethoxylates, alkylphenoxy carboxylates and alkylphenols by liquid chromatography-tandem mass spectrometry".

38th International Symposium on Capillary Chromatography, Riva del Garda 20-23 May 2014 poster presentation: C. Ancillotti, L. Ciofi, L. Checchini, M. Del Bubba. "HPLC analysis of

selected primary and secondary metabolites in *Nicotiana langsdorffii*: determination of markers of plant response to different kind of abiotic stresses”.

20th International Symposium on Separation Sciences, Prague, 30 August-2 September 2014, poster presentation: L. Ciofi, L. Checchini, C. Ancillotti, U. Chiuminatto, E. Coppini, D. Fibbi, M. Del Bubba. “Chromatographic and mass spectrometric behaviours of alkylphenols polyethoxylates and their carboxylate and phenolic metabolites: off-line and on-line sample extraction and simultaneous LC-MS/MS analysis”.

20th International Symposium on Separation Sciences, Prague, 30 August-2 September 2014, oral communication: C. Ancillotti, L. Ciofi, L. Checchini, P. Bogani, M. Del Bubba. “HPLC determination of selected sugars and phenolic compounds as markers of plant response to abiotic stresses in the model plant *Nicotiana langsdorffii*”.

21th International Symposium on Separation Sciences 2015, Lubiana 30 June – 3 July 2015 oral presentation: C. Ancillotti, L. Ciofi, D. Pucci, U. Chiuminatto, E. Giordani, M.C. Bruzzoniti, M. Del Bubba. “HPLC-MS/MS characterization of polyphenolic components of berries of different species of *Vaccinium* genus”.

21th International Symposium on Separation Sciences 2015, Lubiana 30 June – 3 July 2015 poster presentation: M. Del Bubba, L. Ciofi, R. Guedes-Alonso, Z. Sosa-Ferrera, J. J. Santana-Rodriguez, A. Kabir, K. G. Furton. “Fabric Phase Sorptive Extraction (FPSE) followed by UHPLC-MS/MS analysis of steroid hormones in biological and environmental samples”.

42nd International Symposium on High Performance Liquid Phase Separation and related techniques, Genève 21 – 25 June 2015 poster presentation: R. Guedes-Alonso, L. Ciofi, M. Del Bubba, Z. Sosa-Ferrera, J.J. Santana-Rodríguez, A. Kabir, K .G. Furton. “Determination of steroid hormones in wastewaters by using Fabric Phase Sorptive Extraction (FPSE) and ultra-high performance liquid chromatography tandem mass spectrometry”.

26th International Symposium on Pharmaceutical and Biomedical Analysis (PBA 2015), 5-8 July 2015, Tbilisi, Georgia, poster presentation: C. Ancillotti, M. Del Bubba, S. Furlanetto. “Polyphenolic profiles of berries from different *Vaccinium* species by liquid chromatography coupled with tandem mass spectrometry”.

16th European Meeting on Environmental Chemistry, Turin 30 November – 3 December 2015 oral presentation: L. Ciofi, D. Rossini, M.C. Bruzzoniti, E. Coppini, M. Del Bubba. “QuEChERS extraction followed by on-line clean-up and tandem mass spectrometric determination of selected drugs in wastewater and sewage sludge”.

Upcoming Congresses:

39th Symposium Chromatographic methods of investigating the organic compounds, 1-3 June 2016, Katowice – Szczyrk, Poland, oral presentation: M. Del Bubba, C. Ancillotti, L. Ciofi, S. Furlanetto. “Liquid chromatographic tandem mass spectrometric analysis of polyphenolic compounds in Italian spontaneous and cultivated berries: target and non-target approaches for their comparison and valorization”.

18th International Symposium on advances in extraction technologies & 22nd international symposium on separation sciences, 3-9 July 2016, Torun, Poland, poster presentation: L. Ciofi, L. Renai, L. Checchini, A. Falai, D. Santianni, M.C. Bruzzoniti, D. Fibbi, M. Del Bubba. “Direct

Injection-LC-MS/MS determination of perfluoro-alkyl acids in wastewater and surface water: influence of the matrix on method performances”

18th International Symposium on advances in extraction technologies & 22nd international symposium on separation sciences, 3-9 July 2016, Torun, Poland, oral presentation: M. Del Bubba, L. Ciofi, C. Ancillotti, L. Checchini, S. Furlanetto. “Pushing-up the overall analytical throughput in the chromatographic determination of organic micropollutants in the environment: from the extraction to the instrumental analysis”