

Analytical Chemistry

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+39 049 827 5182 (PP); 5207 (SB); 5178 (AT)



Denis Badocco (denis.badocco@unipd.it); Sara Bogialli (sara.bogialli@unipd.it); Luca Cappellin (luca.cappellin@unipd.it); Valerio Di Marco (valerio.dimarco@unipd.it); Gabriella Favaro (gabriella.favaro@unipd.it); Marco Frasconi (marco.frasconi@unipd.it); Chiara Giorio (chiara.giorio@unipd.it); Paolo Pastore (paolo.pastore@unipd.it); Andrea Tapparo (andrea.tapparo@unipd.it)

The research areas of the Analytical Chemistry group are focused on three main subjects: 1) mass spectrometry, 2) environmental chemistry and 3) sensing. The Analytical Chemistry laboratories are equipped with various instrumentations such as high resolution LC-MS (Q-TOF by Agilent and Q-Exactive by Thermo), ICP-MS (Agilent), GC-MS/MS (Thermo) and many other instruments dedicated to the following topics: optical sensors; emerging contaminants in the environment and food; metabolomics; metallomics; atmosphere chemistry; PTR-MS for food and environment; metal-ligand complexation in aqueous solutions for chelation therapy.

The group is currently involved in various collaborations in national and international projects.

- *Ion Pair Formation between Tertiary Aliphatic Amines and Perchlorate in the Biphasic Water/Dichloromethane System*, J. Phys. Chem. B, **2017**, 121, 9403-9410.
- *Liquid chromatography-high resolution mass spectrometric methods for the surveillance monitoring of cyanotoxins in freshwaters*, Talanta, **2017**, 170, 322-330.
- *Porous graphite oxide pillared with tetrapod-shaped molecules*, Carbon, **2017**, 120, 145-156.
- *Ornamental plants on sale to the public are a significant source of pesticide residues with implications for the health of pollinating insects*, Environ. Pollution, **2017**, 228, 297-304.
- *Online Quantification of Criegee Intermediates of α -Pinene Ozonolysis by Stabilisation with Spin Traps and Proton Transfer Reaction Mass Spectrometry Detection*, Journal of the American Chemical Society, **2017**, 139, 3999-4008.