Francisco Ardini

Fixed-term assistant professor

✉ ardini@chimica.unige.it
☎ +39 0103538711
☎ +39 0103536173

Education and training

2012
Doctorate in Chemical Sciences and Technologies

Development of innovative analytical methods based on ICP-MS for the determination of chemicals of environmental and toxicological interest - Excellent

University of Genoa - Genoa - IT

2008
Master's degree in Chemical Sciences

Development of analytical methods based on ICP-MS for the analysis of environmental matrices - 110/110 cum laude

University of Genoa - Genoa - IT

2006
Bachelor's degree in Chemistry

Chemical and microbiological analyses of drinking waters - 110/110 cum laude

University of Genoa - Genova - IT

Academic experience

2017 - ONGOING
Researcher

University of Genoa - Genoa - IT

2012 - 2018
Postdoctoral researcher

University of Genoa - Genoa - IT

Development of analytical methods for the determination of parameters of environmental and food interest elemental analysis of seawater sediments plants and atmospheric aerosol by ICP-MS and ICP-AES speciation of arsenic and selenium compounds by HPLC-ICP-MS iron speciation by CLE-AdSV determination of terpenes in plants and pyrazine in cocoa by GC-MS.

Language skills

Italian
Mother tongue

English
Independent

Spanish
Independent

Research interests

My research is focused on the development of analytical methods for the determination of parameters of environmental and food interest:

- Elemental analysis of seawater, snow, soils, sediments, plants, suspended particulate matter and atmospheric aerosol by ICP-MS and ICP-AES.
- Speciation of arsenic compounds in marine organisms and rice products by HPLC-ICP-MS.
- Speciation of selenium compounds in urine by HPLC-ICP-MS.
- Speciation of iron in seawater, snow, sea ice and brine with CSV.

Furthermore, I do fundamental research in the field of ICP spectrometry:

- Experimentation of different sample introduction systems for microflow analysis.
- Studies of the influence of the different chemical species of an element on ICP signal at low liquid flow rate