

Curriculum Vitae

Dr. Abolfazl Saleh



Position: **Head of National Center for Antarctic Research**

Assistant Professor in **Analytical Chemistry**

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Academic Background

- PhD in Analytical Chemistry Tarbiat Modares University (TMU), Tehran, Iran, 2006- 2011
- M.Sc in Analytical Chemistry Tarbiat Modares University (TMU), Tehran, Iran, 2004- 2006
- B.Sc in Pure Chemistry, Isfahan University of Technology (IUT), Sep. 2000-Sep. 2004

Positions & Work Experiences & Memberships

- Head of National Center for Antarctic Research (in Iranian National Institute for Oceanography and Atmospheric Science) , November 2013 till now
- Assistant Professor in Iranian National Institute for Oceanography and Atmospheric Science March 2007-March 2009, March 2011 till now
- Researcher in Geological Survey of Iran, Marine Chemistry Department

Experiences with Analytical Instruments:

➤ Chromatographic systems:

Liquid-Chromatography Mass Spectrometry (LC-ESI-MS)
High Performance Liquid Chromatography (HPLC-(UV and PDA))
Gas Chromatography (GC-FID)
Gas Chromatography Mass Spectrometry (GC-MS)

➤ Atomic spectrometers:

Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)
Flame AAS
Flame Photometer

➤ Extraction instruments:

Pressurized Liquid Extractor (PLE)
Supercritical Fluid Extractor (SFE)
Microwave Assisted Extractor (MAE)

➤ Spectrophotometer:

UV-Vis spectrophotometer (double and single beam)

- TOC/TIC analyzer
- Portable Meter (HACH)
- Seawater and sediment (surface and core) sampling facilities (van veen grab, rosette water sampler).

Memberships:

- Iranian Chemical Society
- Iranian Electrochemical society

Teaching Experiences

➤ 2005- 2006

- Enghelab-e Eslami University, Tehran

Instructor

Courses: Analytical Chemistry; Analytical Chemistry Lab

➤ 2008

- Azad University, Varamin, Tehran

Instructor

Course: Instrumental Analysis Lab

➤ 2011 till now

- Azad University, Shahre Rey, Tehran

Instructor

Courses: Analytical chemistry2, Instrumental analysis Lab

Research Activities

Research Interest

- Separation and chromatography
- Development of new sample preparation techniques especially for marine sediments, seawater and organisms.
- Carbonate chemistry of seawater and Ocean acidification monitoring
- Marine pollution
- Antarctic research

Full Papers

Y. Yamini, **A. Saleh**, "Ultrasound-assisted emulsification microextraction combined with injection-port derivatization for the determination of some chlorophenoxyacetic acids in water samples", *Journal of Separation Science*, 36 (2013) 2330-2338.

M. Rezaee, H.A. Mashayekhi, **A. Saleh**, Y. Abdollahzadeh, M.H. Naeeni, N. Fattahi, "Determination of abamectin in citrus fruits using SPE combined with dispersive liquid-liquid microextraction and HPLC-UV detection" , *Journal of Separation Science*, 36 (2013) 2629-2634.

Y. Yamini, **A. Saleh**, M. Rezaee, L. Ranjbar, M Moradi, "Ultrasound-assisted emulsification microextraction of some preservatives from cosmetics, beverages and water samples" *Journal of Liquid Chromatography & Related Technologies*, 35 (2012) 2623-2642.

A. Mehdinia, F. Bashour, F. Roohi, A. Jabbari, **A. Saleh**, "Preparation and evaluation of thermally stable nano-structured self-doped polythiophene coating for analysis of phthalate ester trace levels" *Journal of Separation Science* 35 (2012) 563-570.

L. Ranjbar, Y. Yamini, **A. Saleh**, S. Seidi, M. Faraji, "Ionic liquid based dispersive liquid-liquid microextraction combined with ICP-OES for the determination of trace quantities of cobalt, copper, manganese, nickel and zinc in

environmental water samples" *Microchimica Acta*, (2012) 1-9.

A. Saleh, E. Larsson, Y. Yamini, J.Å. Jönsson, "Hollow fiber liquid phase microextraction as a preconcentration and clean-up step after pressurized hot water extraction for the determination of non-steroidal anti-inflammatory drugs in sewage sludge" *J. Chromatogr. A* 1218 (2011) 1331.

S. Seidi, Y. Yamini, **A. Saleh**, M. Moradi, "Electromembrane extraction of levamisole from human biological fluids" *Journal of Separation Science* 34 (2011) 585.

Y. Yamini, M. Rezaee, A. Khanchi, M. Faraji, **A. Saleh**, "Dispersive liquid-liquid microextraction based on the solidification of floating organic drop followed by inductively coupled plasma-optical emission spectrometry as a fast technique for the simultaneous determination of heavy metals", *J. Chromatogr. A* 1217 (2010) 2358.

M. Faraji, Y. Yamini, **A. Saleh**, M. Rezaee, M. Ghambarian, R. Hassani, "A nanoparticle-based solid-phase extraction procedure followed by flow injection inductively coupled plasma-optical emission spectrometry to determine some heavy metal ions in water samples", *Anal. Chim. Acta* 2010 (659) 172.

M. Moradi, Y. Yamini, A. Vatanara, A. Saleh, M. Hojati and S. Seidi, "Monitoring of trace amounts of some anti-fungal drugs in biological fluids by hollow fiber based liquid phase microextraction followed by high performance liquid chromatography" *Anal. Methods* 2 (2010) 387.

Y. Yamini, M. Moradi, M. Hojjati, F. Nourmohammadian, **A. Saleh**, "Solubilities of Some Disperse Yellow Dyes in Supercritical CO₂", *Journal of Chemical & Engineering Data* 55 (2010) 3896.

M. Rezaee, Y. Yamini, M. Moradi, **A. Saleh**, M. Faraji, M.H. Naeeni, "Supercritical fluid extraction combined with dispersive liquid-liquid microextraction as a sensitive and efficient sample preparation method for determination of organic compounds in solid samples" *J. Supercritical Fluids* 55(2010) 161.

M. Rezaee, Y. Yamini, A. Khanchi, M. Faraji, **A. Saleh**, "A simple and rapid new dispersive liquid-liquid microextraction based on solidification of floating organic drop combined with inductively coupled plasma-optical emission spectrometry for preconcentration and determination of aluminium in water samples" *Journal of Hazardous Materials* 178 (2010) 766.

A. Saleh, Y. Yamini, M. Faraji, S. Shariati, M. Rezaee, "Hollow fiber liquid phase microextraction followed by high performance liquid chromatography for determination of ultra-trace levels of Se(IV) after derivatization in urine, plasma and natural water samples", *J. Chromatogr. B* 877 (2009) 1758.

A. Saleh, Y. Yamini, M. Faraji, M. Rezaee, M. Ghambarian, "Ultrasound-assisted emulsification microextraction method based on applying low density organic solvents followed by gas chromatography analysis for the determination of polycyclic aromatic hydrocarbons in water samples", *J. Chromatogr. A* 1216 (2009) 6673.

E. Tahmasebi, Y. Yamini, **A. Saleh**, "Extraction of trace amounts of pioglitazone as an anti-diabetic drug with hollow fiber liquid phase microextraction and determination by high-performance liquid chromatography-ultraviolet detection in biological fluids", *J. Chromatogr. B* 877 (2009) 1923.

M. Ghambarian, Y. Yamini, **A. Saleh**, S. Shariati, N. Yazdanfar, "Taguchi OA₁₆ orthogonal array design for the optimization of cloud point extraction for selenium determination in environmental and biological samples by tungsten-modified tube electrothermal atomic absorption spectrometry", *Talanta* 78 (2009) 970.

Y. Yamini, **A. Saleh**, M. Khajeh, "Orthogonal array design for the optimization of supercritical carbon dioxide extraction of platinum(IV) and rhenium(VII) from a solid matrix using cyanex 301", *Sep. Purif. Technol.* 61 (2008) 109.

S. Shariati, Y. Yamini, M. Faraji, **A. Saleh**, "On-line solid phase extraction coupled to ICP-OES for simultaneous preconcentration and determination of some transition elements", *Microchim. Acta* 165 (2008) 65.

Projects

➤ Seasonal and interannual monitoring of Persian Gulf and Golf of Oman (PG-GOOS), *Iranian National Institute for Oceanography and Atmospheric Science, 2012-now*

- Research stations in Antarctica and their current scientific activities, *Iranian National Institute for Oceanography and Atmospheric Science, 2014-now.*
- Investigation of effects of ecological parameters on coral reefs of eastern Persian Gulf, *Iranian National Institute for Oceanography and Atmospheric Science, 2014-now.*
- Seasonal assessment of the physiological performance of the dominant reef builder of the coral reef of Hengam Island based on measurements of related chemical parameters, *Iranian National Institute for Oceanography and Atmospheric Science, 2012-2013.*
- Investigation of antifouling agents pollution (Irgarol 1051 and Diuron) in seawater and sediments from ports and marinas of Bushehr, *Iranian National Institute for Oceanography and Atmospheric Science, 2012-2014.*
- Polycyclic Aromatic Hydrocarbons (PAHs) in the sediments of the intertidal areas in Northern Pars Special Economic Energy Zone, *Iranian National Institute for Oceanography and Atmospheric Science, 2012*
- Equipment for oceanographic research submarine (2000 m depth), *Iranian National Institute for Oceanography and Atmospheric Science, 2013.*

Workshops

- Tarbiat Modares University, Analytical Chemistry Lab, 2009
Instructor
HPLC workshop