

## Curriculum Vitae

**Dr. Maryam Ghaemi**



Positions: **Head of Persian Gulf Oceanography Center (Boushehr)**

**Assistant Professor in Analytical Chemistry**

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## Academic Background

- PhD in Analytical Chemistry, Shiraz University, Shiraz, Iran, 2007-2012
- M.Sc in Analytical Chemistry, Shiraz University, Shiraz, Iran, 2003-2006
- B.Sc in Pure Chemistry, Persian Gulf University, Bushehr, Iran, 1999-2003

## Positions & Work Experiences & Memberships

- Assistant Professor in Iranian National Institute for Oceanography and Atmospheric Science, 2013 till now
- Head of Persian Gulf Oceanography Center (Boushehr)
- Reviewer of ISI Journals

## Research Activities

- Monitoring of chemical oceanographic parameters in marine ecosystems including mangroves, estuaries,...
- Marine pollution
- Carbonate chemistry of seawater and ocean acidification monitoring
- Synthesis of nanoparticles using seaweeds and its applications
- Solid-phase extraction
- Separation
- Application of Ionic liquids for modification of nanoparticles in separation sciences
- Application of nanoparticles in separation of amino acids, DNA, dyes, drugs,...
- Green chemistry

## Teaching Experiences

2003 till now:

- General and Analytical Chemistry Laboratories
- General Chemistry Courses
- Analytical Chemistry (Classical methods)
- Analytical Chemistry (Electrochemical methods)
- Advanced Analytical Chemistry

- Instrumental Analytical Chemistry
- Ultra Trace Analysis Methods
- Real Sample Analysis

## Full Papers

- Ghaemi, M.**, Gholamipour, S., 2017. Seasonal Measurement of Nutrient Concentrations and Total Alkalinity in the Mond Estuary Ecosystem, In press.
- Ghaemi, M.**, Gholamipour, S., 2017. Controllable Synthesis and Characterization of Silver Nanoparticles Using Sargassum Angostifolium. Iran. J. Chem. Chem. Eng, 36, 1-10.
- Ghaemi, M.**, Absalan, G., Pourshamsi, T., 2017. Modification of CoFe<sub>2</sub>O<sub>4</sub> Magnetic Nanoparticles by Dopamine and Ascorbic Acid as Anchors. Anal. Bioanal. Chem. Res., 4, 141-154.
- Absalan, G., Bananejad, A., **Ghaemi, M.**, 2017. Removal of Alizarin Red and Purpurin from Aqueous Solutions Using Fe<sub>3</sub>O<sub>4</sub> Magnetic Nanoparticles. Anal. Bioanal. Chem. Res., 4, 65-77.
- Bakhshan, Y., Samari, F., **Ghaemi, M.**, Ghafarigousheh, S., Kakoe, A., 2017. Experimental Study on the Thermal Conductivity of Silver Nanoparticles Synthesized Using Sargassum Angostifolium, Iran. J. Sci. Tech, Trans. Mech. Eng., In press.
- Ghaemi, M.**, Absalan, G., 2014. Study on the Adsorption of DNA on Fe<sub>3</sub>O<sub>4</sub> Nanoparticles and on Ionic Liquid-Modified Fe<sub>3</sub>O<sub>4</sub> Nanoparticles. Microchim Acta, 181, 45-53.
- Ghaemi, M.**, Absalan, G., Sheikhan, L., 2014. Adsorption Characteristics of Titan Yellow and Congo Red on CoFe<sub>2</sub>O<sub>4</sub> Magnetic Nanoparticles, J. Iran. Chem. Soc., 11, 1759-1766.
- Ghaemi, M.**, Absalan, G., 2014. Fast Removal and Determination of Doxycycline in Water Samples and Honey by Fe<sub>3</sub>O<sub>4</sub> Magnetic Nanoparticles, J. Iran. Chem. Soc., 12, 1-7.
- Absalan, G., **Ghaemi, M.**, 2012. Investigating the Parameters Affecting the Adsorption of Amino Acids onto AgCl Nanoparticles with Different Surface Charges. Amino acids. 43, 1955-1967.
- Ghaemi, M.**, Gholamipour, S., 2016. Controllable Synthesis and Characterization of Silver Nanoparticles Using Sargassum Angostifolium, 23rd Iranian Seminar of Analytical Chemistry, Sharif University of Technology, Tehran, Iran.
- Ghaemi, M.**, Absalan, G., 2013. Rapid and Simple Determination of Doxycycline in Water Samples and Honey by Fe<sub>3</sub>O<sub>4</sub> Magnetic Nanoparticles. 19th Iranian Seminar of Analytical Chemistry, Ferdowsi University, Mashhad, Iran.
- Absalan, G., Akhond, M., Bananezhad, A., **Ghaemi, M.**, 2013. Removal of Alizarin Red and Purpurin from Aqueous Solutions using Fe<sub>3</sub>O<sub>4</sub> Magnetic Nanoparticles. 19th Iranian Seminar of Analytical Chemistry, Ferdowsi University, Mashhad, Iran.
- Absalan, G., **Ghaemi, M.**, 2011. Competitive Adsorption of Azo Dyes from Aqueous Solution Using CoFe<sub>2</sub>O<sub>4</sub> Magnetic Nanoparticles. 5th National Seminar of Chemistry & Environment, Shahid Chamran University, Ahvaz, Iran.
- Absalan, G., Akhond, M., Abolverdi, M., **Ghaemi, M.**, 2011. Temperature-Controlled Ionic Liquid-Phase Microextraction for Preconcentration and Determination of Copper I. 5th National Seminar of Chemistry & Environment, Shahid Chamran University, Ahvaz, Iran.
- Ghaemi, M.**, Eslami, E., Hamze, F., 2011. Extraction of Aromatic Amino Acids Using Nanoparticulate Reverse Micelles. 1st National Iranian New Chemistry Congress.
- Ghaemi, M.**, Absalan, G., 2010. Adsorption of Acidic, Basic and Neutral Amino Acids on Nanoparticles of Silver Chloride. 3rd International Congress on Nanoscience and Nanotechnology, Shiraz University, Shiraz, Iran.

Absalan, G., Akhond, M., **Ghaemi, M.** 2007. Application of New Laboratory-Synthesized Polymeric-Based Sorbent for Extraction of Silver Ions from Aqueous solutions. 15rd Iranian Seminar of Analytical Chemistry, Shiraz University, Shiraz, Iran.

## Projects

- Oceanographic monitoring of Northern Pars Special Economic Energy Zone coastal water (Persian Gulf), *Iranian National Institute for Oceanography and Atmospheric Science*, 2012-2014.
- Measurement and analysis of chemical oceanographic parameters of the Mond Estuary (Bushehr province), *Iranian National Institute for Oceanography and Atmospheric Science*, 2014-2015.
- Synthesis of silver nanoparticles using brown alga *Sargassum Angostifolium* on the coast of the Persian Gulf (Bushehr Province), *Iranian National Institute for Oceanography and Atmospheric Science*, 2014-2015.
- Estimation of economic impacts and oil pollution damage caused by sinking of two barges in nayband national park area (year 2010) in Bushehr Province, *Iranian National Institute for Oceanography and Atmospheric Science*, 2011-2015.
- Investigation of pollutant sources and environmental threats of Persian Gulf in Bushehr province, *Iranian National Institute for Oceanography and Atmospheric Science*, 2015-2016.
- Evaluation and comparison of physicochemical parameters associated with acidification of Bushehr mangrove ecosystems (Nayband, Melgonze and Bardestan), *Iranian National Institute for Oceanography and Atmospheric Sciences*, 2015 till now.
- Ecological study and comparison of the composition of plankton communities of the Mond Estuary in the Persian Gulf, *Iranian National Institute for Oceanography and Atmospheric Sciences*, 2015 till now.
- Analysis of nutrients in the coastal waters of Bushehr city with the help of paper-based microfluidic technology and comparison with standard method, *Iranian National Institute for Oceanography and Atmospheric Sciences*, 2016 till now.

## Workshops

- The Role of antarctic in the global climate change (past, present and future), *Iranian National Institute of Oceanography and Atmospheric Sciences*, Tehran, Iran, 2017.
- Antarctic research, *Iranian National Institute of Oceanography and Atmospheric Sciences*, Tehran, Iran, 2017.
- Regional ocean governance for the Mediterranean, Black, Baltic & Caspian seas, The University of Malta and International Ocean Institute, 6th Nov-8th Dec, Malta; 2016.
- Role of mangrove forests in the Persian Gulf ecosystem, Persian Gulf oceanography center (Boushehr), Boushehr, Iran, 2017.
- Marine pollutants and its control strategies, Persian Gulf oceanography center (Boushehr), Boushehr, Iran, 2017.
- Patent searching and analysis, Defensive Industries Research and Training Institute, Tehran, Iran, 2013.
- Questel-Orbit QPAT Patent Database, Defensive Industries Research and Training Institute, Tehran, Iran, 2013.