

Personal
Information

Moslem Jahani
Ph. D in Analytical Chemistry



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Employment

Assistant Professor, Department of Food Chemistry
Research Institute of Food Science and Technology (RIFST), 2014-present
Mashhad, Iran., 91895/157/356

Education

▪ 2008-2013

Ph.D: Analytical Chemistry, University of Birjand, Iran

Thesis : Solid-Phase Extraction of Antibiotics by Molecularly Imprinted Polymers
Supervisor : Prof. Susan Sadeghi

▪ 2004-2007

M.Sc: Analytical Chemistry, University of Birjand, Iran

Thesis : Preparation and Characterization of an Ion Selective Electrode for Cu²⁺ Ions Based on Erythromicine as Ionophore
Evaluation of Selective Transport of Cu²⁺ Ions by Liquid Membrane using Erythromicine as carrier
Supervisors : Dr. Susan Sadeghi
Dr. Ebrahim Ghiamati

▪ 1999-2003

B.Sc: Applied Chemistry, Islamic Azad University, Yazd Branch, Iran

Research
Interests

- Molecularly Imprinted Polymers (MIPs)
- Ion Imprinted Polymers (IIPs)
- Solid-Phase Extraction (SPE), new adsorbents and method development
- Biomass and Bio-sorbents
- Magnetic Nano-particles
- Chemical Sensors
- Modified Quantum Dots
- Carbon and Graphene Quantum Dots (preparation, modification and application)
- Chemical Residues in Food Samples (Metal Ions, Drugs and Toxins)

Teaching

Experiences

- 2008-2009 University of Applied Science and Technology, Birjand, Iran
- 2009-2013 Department of Chemistry, Faculty of Science, University of Birjand
- 2009-2013 Department of Mining and Geology, Faculty of Engineering, University of Birjand
- 2009-2013 Department of Environmental Science, Faculty of Agriculture, University of Birjand
- 2013-2014 Department of Chemistry, University of Gonabad, Iran
- 2015-2016 Departments of Chemistry and biology, Islamic Azad University, Mashhad Branch, Iran

Courses:

- General Chemistry I
- General Chemistry II
- Laboratory of Instrumental Analysis
- Laboratory of Analytical Chemistry II (Electrochemistry)
- Water Quality Control (Laboratory of Instrumental Methods)
- Analysis of Minerals (Laboratory of Instrumental Methods)

Publications

- S. Sadeghi, M. Jahani. "New Copper (II) Ion-Selective Membrane Electrode Based on Erythromycin Ethyl Succinate as a Neutral Ionophore", *Analytical Letters*, 42 (2009) 2026-2040.
- S. Sadeghi, M. Jahani, E. Ghiamati. "Selective Transport of Cu Ions through Bulk Liquid Membrane System Mediated by Erythromycin Ethyl Succinate ", *Separation Science and Technology*, 46 (2011) 215-223.
- S. Sadeghi, M. Jahani. "Selective solid-phase extraction using molecular imprinted polymer sorbent for the analysis of Florfenicol in food samples", *Food Chemistry*, 141 (2013) 1242-1251.
- S. Sadeghi, M. Jahani. "Solid-Phase Extraction of Florfenicol from Meat Samples by a Newly Synthesized Surface Molecularly Imprinted Sol-Gel Polymer", *Food Analytical Methods*, 7 (2014) 2084-2094.
- S. Sadeghi, M. Jahani, F. Belador. "The development of a new optical sensor based on the Mn doped ZnS quantum dots modified with the molecularly imprinted polymers for sensitive recognition of florfenicol", *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 159 (2016) 83-89.

Supervised

M.Sc. Thesis

- S. Biaazar, "Removal of nitrate and sulphate from aqueous samples by nano-particles and bio-sorbents" University of Birjand, Iran, 2011
- K. Abdoli, "Removal of chromium and iron from aqueous samples by nano-particles and bio-sorbents" University of Birjand, Iran, 2012
- S. Kaedi, "Evaluation of Eucalyptus leaves and Date seed powders in chromium removal from aqueous solutions" University of Birjand, Iran, 2012
- N. Boosaedi, "Removal of chromium and phenol from polluted water samples by bio-sorbents" University of Birjand, Iran, 2012

- P. Ghanbarzadeh, “ The study of hexavalent chromium removal from polluted water samples by herbs waste as bio-sorbents” University of Birjand, Iran, 2012
- M. Gholami, “Cadmium removal from wastewater using pruning barberry as a natural sorbent” University of Birjand, Iran, 2014

Membership

- Iranian Chemical Society (ICS), 2014-present

Skills

- Infrared (IR) Spectroscopy
- Samples reparation (solid and liquid) for IR spectroscopy
- Interpretation of IR spectra
- Ultraviolet and visible spectroscopy
- Fluorescence spectroscopy
- Atomic absorption spectroscopy (flame and graphite furnace)
- Induced coupled plasma spectrophotometer (ICP-OES)

Computer Knowledge

- Microsoft Office Collection (Word, Excel and Powerpoint)
- Endnote
- Photoshop
- ChemOffice