Dr Ali Gholami

Assistant Professor of Analytical Chemistry

Personal Information

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Date of birth: 1963
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Educational Information

- **Ph.D.**
  Analytical Chemistry, Sharif University of Technology, 2001.
- **MSc**
  Analytical Chemistry, Sharif University of Technology, 1995.
- **BSc**
  Chemistry-Applied Chemistry, Chemistry-Applied Chemistry, 1992.

Publication

Research Journals

1- Khoobi A, Salavati-niasari M, Ghani M, Ghoreishi SM, **Gholami A**. Multivariate optimization methods for in-situ growth of LDH/ZIF-8 nanocrystals on anodized aluminium substrate as a nanosorbent for stir bar sorptive extraction in biological and food samples, Food Chemistry, 2019.

2- Masoum S, **Gholami A**, Ghaheri S, Jouan-Rimbaud Bouveresse D, B.Y. Cordella C, N. Rutledge D. Investigation of fragrance stability used in the formulation of cosmetic and hygienic products using headspace solid-phase microextraction by nanostructured materials followed by gas chromatography with mass spectrometry, Journal of Separation Science, 2016.

3- **Gholami A**, Noorizade H. Preconcentration, Speciation and Determination of As and Sb by Optimized Experimental Design DLLME Combined with GF-AAS,

4- **Gholami A**, Maddahfar M. Synthesis and characterization of barium molybdate nanostructures with the aid of amino acids and investigation of its photocatalytic degradation of methyl orange, J Mater Sci: Mater Electron, 2016.

5- **Gholami A**, Mohsenikia A, Masoum S. Determination of Very Low Level of Free Formaldehyde in Liquid Detergents and Cosmetic Products Using Photoluminescence Method, Journal of Analytical Methods in Chemistry, 2016.

6- Ghaheri S, Masoum S, **Gholami A**. Resolving of challenging gas chromatography–mass spectrometry peak clusters in fragrance samples using multicomponent factorization approaches based on polygon inflation algorithm, Journal of Chromatography A, 2016.

7- **Gholami A**, Masoum A, Mohsenikia A, Abbasi S. Chemometrics-assisted excitation–emission fluorescence analytical data for rapid and selective determination of optical brighteners in the presence of uncalibrated interferences, Spectrochim ACTA A, 2015.

8- Masoum S, **Gholami A**, Hemmesi M, Abbasi S. Quality assessment of the saffron samples using second-order spectrophotometric data assisted by three-way chemometric methods via quantitative analysis of synthetic colorants in adulterated saffron, SPECTROCHIM ACTA A, 2015.

9- **Gholami A**, Bahrami F, Faraji M. Nano graphene oxide as solid phase extraction adsorbent coupled with dispersive liquid-liquid microextraction to determine ultra-trace quantities of propranololfrom urine samples, Trends: Journal of Sciences Research, 2018.

10- **Gholami A**, Taghriri M.H. The stability study of myristyl dimethyl amine oxide as an amphoteric surfactant in strong oxidant media containing 5% M/M sodium hypochlorite through measurement of decomposing rate using high performance liquid chromatography and two phase titration, journal of fundamental and applied sciences, 2017.

11- **Gholami A**, Bahrami F, Faraji M. A New method for ultra sensitive determination of salmeterol xinafoate in water and biological samples by High-Performance liquid chromatogeraphy after magnetic

solid phase extraction followed by dabsyl chloride derivatization, Journal of international academic research for multidisciplinary, 2018.

12- Akhoundzadeh H, **Gholami A**, Masoum S, Moazeni-Pourasil R.S. Headspace Solid-Phase Microextraction GC–MS for Rapid Rice Aroma Analysis Using Optimization Tools, Chromatographia, 2018.

13- **Gholami A**, Nikkhah Amirabad T, Maddahfar M. Investigation of photovoltaic properties of silver-doped ZnTiO3 nanoparticles, Journal of Materials Science: Materials in Electronics, 2017.

14- **Gholami A**, Golestaneh M, Andalib Z. A new method for determination of cocamidopropyl betaine synthesized from coconut oil through spectral shift of Eriochrome Black T, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 2017.

15- Mohsenikia A, **Gholami A**, Masoum S, Abbasi S. Three-way spectrofluorimetric-assisted multivariate determination of nonylphenol ethoxylate and 2-naphtalene sulfonate in wastewater samples and optimization approach for their photocatalytic degradation by CoTiO3 nanostructure, Environmental Technology, 2016.

16- **Gholami A**, Maddahfar M. Synthesis and characterization of novel samarium-doped CuAl2O4 and its photocatalytic performance through the modified sol–gel method, Journal of Materials Science: Materials in Electronics, 2015.

17- **Gholami A**, Maddahfar M. Synthesis and characterization of barium molybdate nanostructures with the aid of amino acids and investigation of its photocatalytic degradation of methyl orange, Journal of Materials Science: Materials in Electronics, 2016.

18- **Gholami A**, Noorizade H. Statistical optimization of surfactant assisted dispersive liquid-liquid microextraction for trace mercury determination by GF-AAS, Bulgarian Chemical Communications, 2015.

19- **Gholami A**, Golestane M, Sanei Taheri M.S. Study of kinetic variables affecting the production of viscose bleaching products in order to maintain quality and extend product life, Shimi va Mohandesi Shimi Iran, 2018.

20- **Gholami A**, Fosooni A, Ghasemi H. A simple co-precipitation/calcination method using PEG-1000 as solvent to formation of MWO4 (M= Ba, Ca, Cd, Co, Cu, Mn, Ni, Pb, Sr, Zn) nanocrystals and their photocatalytic properties for degradation of industrial dyes, Pacific Science, 2018.

21- Dabbagh H.A, Mozaffari Majd M, Bahrami F, **Gholami A**. Effect of vitamin C template on morphology and structure of alumina: emerging application in enantiomer separation, Chemical papers, 2019.

22- **Gholami A**, Bahrami F, Faraji M. Sensitive Simultaneous Measurement of Metformin and Linagliptin in Plasma Samples by Couple of Nano Graphene Oxide-based Dispersive Solid Phase Extraction Method and Liquid Chromatography, Iranian Journal of Pharmaceutical Research (2020), 19 (2): 274-282.

23- Memarzadeh S.M, **Gholami A**, Ghasemi Pirbaloutib A, Masoum S. Bakhtiari savory (*Satureja bachtiarica* Bunge.) essential oil and its chemical profile, antioxidant activities, and leaf micromorphology under green and conventional extraction techniques, Industrial Crops & Products, 2020.

24- Gholami A, Mousavinia F. Eco-friendly approach for efficient catalytic degradation of organic dyes through peroxymonosulfate activated with pistachio shell- derived biochar and activated carbon, Environmental Technology, (2021), 42 (4): 1-18

Conference articles

1- H. Bigdeli, **A. Gholami**, M. Zand Monfared. Extraction of crocin from saffron using nanomagnetic molecularly imprinted polymer, The 25th Iranian Seminar of Analytical Chemistry, University of Tabriz, September 2018.
2- S.M Memarzadeh, **A. Gholami**, A. Ghasemi Pirbaluti, S.A. Nourbakhsh. Comparision of chemical composition of essential oils from Bakhtiari savory (Satureja bachtiarica Bunge.) under different extraction methods, The 25th Iranian Seminar of Analytical Chemistry, University of Tabriz, September 2018.
3- **A. Gholami**, S. Masoum, S. Ghahari. Potentialities of chemometrics approaches to discriminate between dead and 5 year survivor ovarian carcinoma patients, 3th Iranian Biennial Chemometrics Seminar, University of Tabriz, November 2011.
4- A**. Gholami**, F. Hosseini. Determination of ethanol as a major constituent in samples contain surfactants, fragrances and other additives using adsorbent and by refractometric method, 20th Iranian Analytical Chemistry Conference, Isfahan University of Technology, November 2013
5- **A. Gholami**, S. Masoum, M. Hamsi, S. Abbasi. Quality assessment of the saffron samples using second-order spectrophotometric data assisted by three way chemometric methods via quantitative analysis of synthetic colorants in adulterated saffron, 20th Iranian Analytical Chemistry Conference, Isfahan University of Technology, February 2014.
6- **A. Gholami**, S. Masoum, S. Abbasi. Model-based tree way chemometrics methodsfor quantitative analysis of linear alkyl benzene sulfonate and optical brightener in laundry powder using excitation emission fluorescence data, 4th Iranian Biennial Chemometrics Seminar, University of Shiraz, November 2013.
7- **A. Gholami**, S. Masoum, A. Mohsenikia, S.Abbasi. Quantitative analysis of amphoteric surfactants in shampoo using excitation emission fluorescence data assisted by three way calibration methods, 4th Iranian Biennial Chemometrics Semina, University of Shiraz, November 2013.
8- **A. Gholami**, F. Faghihi. Speciation and Determination of iron by UV-Visible Spectroscopy and Inductively Coupled Plasma Atomic Emission Spectroscopy methods in crude phosphoric acid, 16th Iranian Congress of Chemistry, University of Yazd, September 2013.
9- **A. Gholami**, H. Zarei, S. Sobhani, Identification and simultaneous determination of seven sulfonated azo-dyes by MLC: application to various food samples, 16th Iranian Congress of Chemistry, University of Yazd, September 2013.

10- **A. Gholami**, H. Zarei, S. Sobhani. Simultaneous determination of glucose, fructose and sucrose in some native melons by high performance liquid chromatography and refractometry and comparison of the analytical results, 16th Iranian Congress of Chemistry, University of Yazd, September 2013.
11- **A. Gholami**, H. Nourizadeh. Dispersive Liquid Liquid Microextraction and Graphite Furnace Atomic Absorption Spectrometry for Speciation and Determination of Sn, Sb and As Metal Ions, 19th Iranian Analytical Chemistry Seminar,Ferdowsi University of Mashahd, October 2012.
12- **A. Gholami**, H. Nourizadeh. Extraction, Preconcentration, Speciation and Determination of Metal Ions by Dispersive Liquid-Liquid Microextraction Coupled with Graphite Furnace Atomic Absorption Spectrometry, 19th Iranian Analytical Chemistry Seminar,Ferdowsi University of Mashahd, October 2012.
13- **A. gholami**, S. Sobhani,H. Zarei. Simultaneous determination of five synthetic Azo-Dyes in commercial Saffron product as a fraud by Micellar Liquid Chromatography (MLC), 19th Iranian Analytical Chemistry Seminar,Ferdowsi University of Mashahd, October 2012.
14- **A. Gholami**, S. Masoum,S. Ghahari. Analysis of commercial fragrances using GC-MS and chemometric approaches, 19th Iranian Analytical Chemistry Seminar,Ferdowsi University of Mashahd, October 2012.
15- **A. Gholami**, F. Sahihi. A modified method For determination Of Sodium tri polyphosphate (STPP) Insynthetic washing powder real samples s, 3th Surfactant and detergent technology conference, Sharif University of technology, October 2012.
16- **A. Gholami**, A. MohseniKia. Determination of trace amount of formaldehyde in detergent after derivatization with 2-methyl acetoacetanilid by photoluminescence method, 3th Surfactant and detergent technology conference, Sharif University of technology, October 2012.
17- **A. Gholami**, S. Masoum,S. Ghahari. Potentialities of chemometric approaches to discriminate between dead and 5 year survivor ovarian carcinoma patients, 15th Iranian chemistry congress, Bu-Ali Sina University, September 2011.
18- **A. Gholami**, E. Saberi. Preconcentration and determination of p-chloro- m-xylenol (PCMX) in some of healthcares products using dispersive liquidliquid microextraction and HPLC techniques, 5th Iranian chemistry congress, Bu-Ali Sina University, September 2011.
19- **A. Gholami**, S. Ghahari. Characterization of the aromatic profile in apple boosted fragrance by Gas Chromatography-Mass Spectrometry (GC/MS), 15th Iranian chemistry congress, Bu-Ali Sina University, September 2011.
20- **A. Gholami**, H. Jahangiri. A novel and very simple method for extraction anddetermination of dioxane in some deterjents' matrix by HPLC–UV, 5th Iranian chemistry congress, Bu-Ali Sina University, September 2011.
21- **A. Gholami**, H. Jahangiri. Preconcentration and determination of dioxane in shampoo samples using dispersive liquid–liquid microextraction followed by HPLC–UV, 15th Iranian chemistry congress, Bu-Ali Sina University, September 2011.

22- **A. Gholami**, A. MohseniKia. New method for determination of linear alkyl benzene sulfonate in dishwashing liquid and laundry powder by photoluminescence method, 17th Iranian seminar of analytical chemistry, September 2010.

23- **A. Gholami**, H. Nourizadeh. New method for determination of indigo in Dye bath in presence of some interfering colorant agents using photoluminescence spectrometry, 17th Iranian seminar of analytical chemistry, September 2010.

24- **A. Gholami**, H. Jahangiri. Pre-concentration and determination of dioxane in shampoo samples using dispersive liquid-liquid micro-extraction (DLLME) followed by HPLC-UV, 15th Iranian chemistry congress, Bu-Ali Sina University, September 2011.

25- **A. Gholami**, E. Saberi. Pre-concentration and determination of PCMX in some of health care products using dispersive liquid-liquid micro-extraction and HPLC technique, 15th Iranian chemistry congress, Bu-Ali Sina University, September 2011.

26- **A. Gholami**, H. Jahangiri. A novel and very simple method for extraction and determination of 1,4-dioxane in some detergent matrix by HPLC-UV, 15th Iranian chemistry congress, Bu-Ali Sina University, September 2011.

27- **A. Gholami**, S. Ghaheri. Characterization of aromatic profile of in apple boosted Fragrance by gas chromatography mass spectrometry (GC/MS), 15th Iranian chemistry congress, Bu-Ali Sina University, September 2011

28- **A. Gholami**, F. Sahihi. A new modified method for determination of tripoltphosphate in synthetic laundry powders, 3th Surfactant and detergent technology conference, Sharif University of technology, October 2012.

29- **A. Gholami**, A. MohseniKia. Determination of trace amount of formaldehyde in detergents after derivatization with 2- methyl acetoacetanilid and photoluminescence method, 3th Surfactant and detergent technology conference, Sharif University of technology, October 2012.

30- **A. Gholami**, A. Mohsenikia. New method for determination of Anionic surfactants in dishwashing liquid and Laundry powder by photoluminescence method, 17th Iranian Analytical Chemistry Congress, Kashan University, September 2010.

31- **A. Gholami**, H. Nourizadeh. New method for determination of indigo in Dye bath in presence of some interfering colorant agents using photoluminescence spectrometry, 17th Iranian Analytical Chemistry Congress, Kashan University, September 2010.

32- **A. Gholami**, R. Pourhadi. Determination of 1,4- Dioxane in sodium lauryl ether sulfate surfactant using a new sorbent and comparison of the results obtained from HPLC and head space gas chromatographic methods, 2th Surfactant and detergent technology conference, Sharif University of technology, June 2010.

33- **A Gholami**, A. MohseniKia. A new method for determination of linear alkyl benzene solfunic, acid surfactant in dishwashing liquids by photoluminescence technique, 2th Surfactant and detergent technology conference, Sharif University of technology, June 2010.

34- **A. Gholami**, A. MohseniKia. A new method for determination of linear alkyl benzene solfunic, acid surfactant in hand washing powders by photoluminescence technique, 2th Surfactant and detergent technology conference, Sharif University of technology, June 2010.

35- **A. Gholami**, R. Pourhadi. Determination of 1, 4-dioxane in some ethoxylated surfactants using a new sorbent and high performance liquid chromatography, 16th Iranian Analytical Chemistry Congress, Bu-Ali Sina University, July 2009.

36- **A Gholami**, E. Ebrahimabadi. Investigation of color producing agents in the cocoamidopropyl betaine surfactant produced from coconut oil by HPLC and GFAAS, 16th Iranian Analytical Chemistry Congress, Bu-Ali Sina University, July 2009.

37- **A. Gholami**, R. Pourhadi, Determination of 1,4-dioxane in some of products (from reaction of ethylene oxide) using HPLC technique, 16th Iranian Analytical Chemistry Congress, Bu-Ali Sina University, July 2009.

38- **A. Gholami**, N. Ghasemiseresht. A new method for determination of vitamin Apalmitate and vitamin E-acetate in cosmetic creams and lotions using Photo luminescence spectrometry, 16th Iranian Analytical Chemistry Congress, Bu-Ali Sina University, July 2009.

39- **A. Gholami**, S. Borzouiee. The study of catalytically decomposition of aqueous NaClO solution in presence of some metal ions, surfactants, essential oils and chelating agent, 16th Iranian Analytical Chemistry Congress, Bu-Ali Sina University, July 2009.

40- **A. Gholami**, A. Teimouri, K. Montaser. Application of fundamental and theory of surfactants in formulation of anti-fog glass cleaner solutions, 1th Surfactant and detergent technology conference, Sharif University of technology, 2008.

41- **A. Gholami**, H. Jahangiri. A novel and very simple method for extraction anddetermination of dioxane in some deterjents' matrix by HPLC–UV, 15th Iranian chemistry congress, Bu-Ali Sina University, September 2011

42- A. Mohsenikiya, **A. Gholami**, S. Masoum, S. Abbasi. Chemometrics-assisted excitation-emission fluorescence analytical data for rapid and selective determination of optical brighteners in the presence of uncalibrated interferences, 5th Iranian Biennial Chemometrics Seminar, 2015.

43- **A. Gholami**, S.H. Taghriri, M. Golestaneh. The Stability Study of Myristyl Dimethyl Amine Oxide as an Amphoteric Surfactant in Strong Oxidant Media Containing 5 % m/m Sodium Hypochlorite, 23th Iranian Analytical Chemistry Conference, Sharif University of Technology, August 2018.

44- S. Masoum, S. Ghahari, **A. Gholami**. Resolving of challenging gas chromatography-mass spectrometry peak clusters in fragrance sample using multicomponent factorization approaches based on polygon inflation algorithm, 21th Iranian Analytical Chemistry Conference, Shahid Chamran University of Ahvaz, March 2015.

Thesis

Ph.D.

1- Quantitative determination of optical brighteners, surface active agents and preservatives in real samples using photoluminescence spectrometry, high performance liquid chromatography and chemometric methods along with photocatlytic degradation examination some of these compounds.

2- Extraction, Pre-concentration, Speciation and Determination of Trace Amount of Metal Ions by Inorganic-Organic Hybrid Nano-material and Dispersive Liquid-Liquid Micro-extraction Coupled with Graphite Furnace Atomic Absorption and Photoluminescence Spectroscopy.

3-Investigation of fragrance stability used in the formulation of cosmetic and hygienic products using headspace micro-extraction pre-concentration techniques followed by gas chromatography-mass spectroscopy and chemometrics.

4- Rapid identification of Champa Iranian rice volatile chemical constituents and aroma profile, by chemometrics assisted optimization of head space solid phase micro extraction pre-concentration and gas chromatography/ mass spectrometry.

5- Preparation and characterization of some metal tungstate (MWO_4, M= Ca, Ba, Cd, Co, Cu, Mn, Ni, Pb, Sr, Zn) nanostructures using wet chemical method and investigation of their photocatalytic activities in degradation of industrial organic dyes methyl orange, methylene blue and eriochrom black T.

6- Ultra-trace determination of salmeterol xinafoate, propranolol, Linagliptin and Metformin drugs using pre-concentration by iron oxide magnetic nanoparticles and nanographene oxide and separation of R and S species of propranolol racemic mixture using optical active HPLC column contain chiral alumina stationary phase.

MSC

1- Determination of vitamin A palmitate and vitamin E acetate in Cosmetic creams and lotions matrix using High performance liquid chromatography (HPLC) and photoluminescence (PL) techniques.

2- Determination of 1, 4-dioxane in some of products by two techniques " HPLC and Head Space GC".

3- Separation of component of cocoamidopropyl betaine surfactant as a amphoteric surfactant with use of rivers phase HPLC and investigation of agent of yellow color in raw material and products.

4- The study of catalytically decomposition of aqueous NaClO solution in presence of some metal ions, surfactants, essential oils and chelating agents.

5- New method for determination of surface active agents (surfactants) in their mixture using photoluminescence technique.

6- New method for determination of indigo in Dye bath in presence of some interfering colorant agents using photoluminescence spectrometry.

7- Characterization of the Aromatic Profile in Apple Boosted Fragrance by Gas Chromatography-Mass Spectrometry (GC/MS).

8- Pre-concentration and determination of p-chloro- m-xylenol (PCMX) in some of the health care products using dispersive liquid- liquid microextraction (DLLME) and high performance liquid-liquid chromatography (HPLC).

9- A Modified Method for Determination of Sodium tri-polyphosphate (STPP) In Synthetic Washing PowderReal samples s. 9

10- Determination of Trace amount of Sn, Pb and As metalloids in local and imported rice with HG-AAS system.

11- Pre-concentration and Determination of 1, 4-Dioxane in Mixture of Surface Active Agents Using Dispersive Liquid-Liquid Micro Extraction (DLLME) and High Performance Liquid Chromatography (HPLC) Techniques.

12- Speciation, determination and purification of metal ions in phosphoric acid produced by Iranian military industries using electrochemical, inductively coupled plasma atomic emission spectroscopic (ICP-AES) methods and ion exchange resins.

13- Determination of low amount of 1, 4-dioxane produced in ethoxylation reactions using "fluorescence quenching" characteristic of some organic dyes.

14- Pre-Concentration of toxic metal ions Pb, Cd, Cr and Cu in green vegetables irrigated by well water and wastewater using ion-exchange resins and determination of them by flame and graphite furnace atomic absorption spectrometry and comparison of the results.

15- Identification and Determination of Tartrazine, Quinoline, Sunset Yellow, Ponceau 4R and Methyl orange as Food Dyes in Saffron Samples by Reversed-Phase Micellar Liquid Chromatography, (RP-MLC).

16- Determination of fructose, glucose, sucrose and "total sugar" in the some fruit samples using high performance liquid chromatography (HPLC), refractometric and brix measurement methods and comparing the analytical results of these methods.

17- Quality assessment of the saffron samples using second-order spectrophotometric data assisted by three way chemometric methods via quantitative analysis of synthetic colorants in adulterated saffron

18- Determination of ethanol as a major constituent in some products contain surfactants, fragrance and other additives by refractometric method and comparison of results with other widespread analytical methods

19- Determination of concentration of gold and silver nanoparticles in aqueous systems via direct introduction to flame atomic absorption spectrometer

20- A new method for purity determination of Cocamidopropyl betaine synthesized from Coconut oil using the absorption spectra shift of Eriochrom Black T indicator and UV-Visible Spectroscopy

21- Study and measurement of decomposing rate of sodium lauryl ether sulphate in strong oxidant media contain 5 % w/w sodium hypochlorite, using high performance liquid chromatography and two phase titration

22- Stability study of Myristyl dimethylamine oxide as a nonionic surfactant in strong oxidant media containing 5 % w/w sodium hypochlorite through measurement of decomposing rate using high performance liquid chromatography and two phase titration

23- Simultaneous measurement of linear alkyl benzene sulfunate and optical brightener using photoluminescence spectrometer and chemometrics

24- A new method for purity determination of amphoteric surfactant cocamidopropyl hydroxyl sultaine synthesized from coconut oil using the absorption spectra shift of methyl orange indicator and UV-Visible spectroscopy

25- The study of atomization behavior of aqueous suspensions contain ZnO, CuO and MgO nanoparticles in comparison with aqueous solution of Zn^{2+}, Cu^{2+} and Mg^{2+}in flame atomic absorption spectroscopy

26- Pre-concentration and speciation of trace Cr (III) and Cr (VI) in water and tobacco samples by hollow fiber liquid phase micro extraction combined with graphite furnace atomic absorption spectrometry

27- The study of nickel oxide nanoparticles behavior as an effective chemical modifier in trace determination of lead and chromium elements by electrothermal atomic absorption spectrometry

28- Determination of lead ion species using a new Schiff base ”3- ((phenylimino) methyl)benzene-1,2-diol” as a ligand for formation of lead complex and studying its features by UV-Visible spectroscopy

29- Speciation of Co (II) and Co (III) by complex formation with N,N'-bis(salicylidene) ethylenediamine shiff base and UV-Visible molecular absorption spectrometry

30- Selective extraction of Crocin from Saffron using magnetic nanoparticles molecularly imprinted polymer and experimental study of efficiency, isotherm and kinetics of sorption and desorption process using UV-Visible spectrophotometry and high performance liquid chromatography

31- Exprimental investigation of unconventional interaction between surface active agent-bromophenol Blue for determination of cetyltrimethylammonium chloride (CTAC) in the presence an absence of other surface active agents using UV-Visible spectra shift of indicator

32- Microextraction, pre-concentration and determination of Uranyl species using magnetic solvents and assistance of ultrasonic waves.

33-Experimental study of desorption process of malathion pesticide residues from surface of some greenhouse fruits such as cucumber using surface active agents and molecular photoluminescence spectrometry and high performance liquid chromatography techniques.

educational experience

- **University of Kashan**
  Professor of educational model in 2007, 2009 and 2012, 1394 and 1398
  Courses (BSc):
  - General Chemistry1, General Chemistry2, Analytical Chemistry1, Engineering Analytical Chemistry, Analytical Chemistry2, Analytical Chemistry Instrument, Water and Wastewater Treatment, Metal Corrosion, Inorganic Real Sample Analysis, Analytical Chemistry lab1, Engineering Analytical Chemistry, Analytical Chemistry Instrument Lab, Practice and Research, Isolation Methods in Analytical Chemistry

  Courses (MSc):
  Advanced Analytical Chemistry, Atomic Analytical Spectroscopy, Very Low Measurement, Special Topics in Analytical Chemistry, Familiarity with Iran's chemical industry
  Courses (Ph.D.):
  - New Topics in Analytical Chemistry, the modern Methods in Instrumental Analysis, PhD Seminar.
- **Imam Hossein University**
  - Advanced analytical chemistry- MSc
- **Standards and Industrial Research Institute Iran-Karaj**
  - Specialized Gas Chromatography course for Experts and Researchers of Bahman Institute 2011
  - Specialized Atomic Absorption Spectroscopy Course and Its Applications for Experts and Research of Institute - March 2011

- **Sharif University and technology (1994-2002)**
  - Engineering analytical chemistry, Analytical Chemistry lab 1
- **Golrang University of Applied Science and Technology (2008-2013)**
  - General Chemistry 1, Analytical Chemistry, Water and wastewater treatment, Metal corrosion

Industrial Experience

- Technician of Soil Analysis Lab of Chini Gol Nama Company- Saveh- 1987
- Supervisor of Industrial Furnaces of Chini Gol Nama Company- Saveh- 1388
- Expert of Soil Analysis Lab of Iranian Armitage Company- Saveh- 1387-1388
- Director of Research and Development Lab, Iranian Armitage Company- Saveh- 1992-1996
- Production Manager of Iranian Armitage Company- Saveh- 1995-1996
- Startup of Health and Industrial chini Production company in Ardestan- Isfahan- 1996
- Startup of Production Line of Bubble Safety Glass- Isfahan- 1997
- Implementation of the Black Metal Complex Paint Production Project in Boyakh Saz Paint Company- Tabriz- 1997
- Consultant of Chemical Part of Starlight Socks Company- 1996-1997
- Startup of Production Line of Indigo Paint of parjin Company- Zanjan- 1998
- Consultant and Supervisor of Refinery of Paksho Company- Kamalshahr- Karaj- 1999
- Consultant and Researcher of R & D Unit of Pakshou Company (2)- Tehran- 1999-2001
- Implementation of Transparent Coolant and Emulsion Cooling Solutions at Neiladie Chemical- 2004
- Consultant of chemical part of Padide Neili Chemical Company- Eshtehard- 2005 up to now
- Senior Researcher in R&D Unit of Padideh Chemie Industrial Group - Manufacturer of hygienic and detergent products since 2005.

Executive Activities

- Educational Assistant, Faculty of Science, 2007-2009
- Head of Analytical Chemistry Department, 2011-2016
- Member of the Expert Team for Analytical Chemistry
- Member of the Expert Team for Applied Chemistry

Areas of interest research

- Inorganic Real sample analysis.
- Speciation of inorganic compounds especially metal ions whit different oxidation States.
- Modification, improvement and introducing of new analytical methods.
- Atomic spectroscopy specially flame-AAS, non-flame (graphite furnace) – AAS, CV-AAS and HG-AAS Atomic and Molecular Fluorescence Spectroscopy.
- Chromatographic sseparation especially high performance liquid chromatography, HPLC.
- Qualification and determination of ingredients of synthetic and industrial fragrances with gas Chromatography/ mass spectrometry (GC/MS).
- Surface Active agents (surfactants) analysis
- Pre concentration of organic and inorganic species with new solid phase extraction such as dispersive liquid- liquid extraction (DLLE).