



نام و نام خانوادگی	فرزانه شمیرانی
مرتبه علمی	استاد تمام
آدرس محل کار	بازگشت بکار
تلفن	---
فکس	---
پست الکترونیک	fashemirani@ut.ac.ir
آدرس وب سایت	---

تحصیلات

- 1) کارشناسی، 1367، شیمی محض، دانشگاه اصفهان
- 2) کارشناسی ارشد، 1369، شیمی تجزیه، دانشگاه تبریز
- 3) دکتری، 1374، شیمی تجزیه، دانشگاه تبریز

کتاب‌های ترجمه شده

- 1) فرزانه شمیرانی و رضا داورخواه . "طیف بینی جذب و نشر اتمی." : انتشارات دانشگاه تهران، 1381.
- 2) هادی مازوچی ، فرزانه شمیرانی و امیرحسین نباتی . "3000مساله حل شده در شیمی." : کانون فرهنگی آموزش، 1381.
- 3) سارا مادر شاهیان و فرزانه شمیرانی . "فلورسانس و فسفرسانس." تهران: انتشارات دانشگاه تهران، 1392.
- 4) محمد ربانی، فرزانه شمیرانی و عامل محرابی. "مبانی شیمی تجزیه." تهران: فرنگاررنگ، 1394.

مقالات چاپ شده در نشریات بین المللی

- 1) Farzaneh Shemirani, Majid Baghdadi, Majid Ramezani, and Mohammad Reza Jamali . "determination of ultra trace amounts of bismuth in biological and water samples by electrothermal atomic absorption spectrometry (ET-AAS) after cloud point extraction." ANALYTICA CHIMICA ACTA -, no. --- (1732): -.
- 2) Asadi, Farzaneh Shemirani, Mohammad Reza Hossenni, Mohammad Reza Jamali, and Reyhaneh Rahnema Kazani . "Determination of trihalomethanes in drinking water by dispersive liquid-liquid microextraction then gas chromatography with electron-capture detection." CHROMATOGRAPHIA 66, no. 1/2 (1732): 86-81.
- 3) Farzaneh Shemirani, Kozani, Jamali, and Amir Niasari-naslaji. "Highly selective cloud point extraction and preconcentration of Trace amounts of silver in water samples using synthesized schiff's base followed by flame atomic absorption spectrometric determination." JOURNAL OF ANALYTICAL CHEMISTRY 61, no. 2 (1973): 128-124.
- 4) Mh Pournaghi Azar, Farzaneh Shemirani, and S Pourtork . "Electrochemical behghviour of Some naves of 9,10 - anthra - quinone in chloroform at mercury and glassy Carbon electrodes : A." TALANTA 42, no. 5 (1995): 677-84.
- 5) Jamshid Manzoory, and Farzaneh Shemirani. "Determination of Chromium (VI) and total chromium by Inductively coupled plasma atomic emission Spectrometry after preconcentration using Solvent extra." Journal of Analytical Atomic Spectrometry 10, no. --- (1995): -.
- 6) Jamshid L Manzoori, Mohammad H Sorouraddin, and Farzaneh Shemirani. "Chromium Speciation by a Surfactant - Coated alumina microcolum using electrothermal atomic absorption Spectrametry." TALANTA 42, no. 8 (1995): 1151-1155.
- 7) Farzaneh Shemirani, Mohammad H Sorouraddin, and Jamshid L Manzoori . "preconcentration and spectrophotometric determination of chromium(VI)and total chromium in drinking water by the sorption of chromium diphenyl carbazone with surfactant coated alumina." ANALYTICAL LETTERS 29, no. 11 (1996): 2007-2014.
- 8) Farzaneh Shemirani, Ali Reza Asghari, and Mohammad Ali Hajimoosa . "Use of the triiodide - hexadecyl Pyridinium chloride micellar system for the kinetic determination of tungsten (VI)." TALANTA 48, no. 4 (1999): 879-883.

- 9) Farzaneh Shemirani, and Bibi Tahereh Sadat Akhavi . "PRECONCENTRATION AND DETERMINATION OF TRACE CADMIUM USING 1 - (2 - PYRIDYLAZO) - 2 - NAPHTHOL (PAN) IMMOBILIZED ON SURFACTANT - COATED ALUMINA." ANALYTICAL LETTERS 34, no. 12 (2001): 2179-2188.
- 10) Farzaneh Shemirani, and M Rajabi . "Preconcentration of chromium and speciation of chromium by electrothermal atomic absorption spectrometry using cellulose adsorbent." Fresenius' Journal of Analytical Chemistry 371, no. 7 (2001): -.
- 11) Farzaneh Shemirani, Mehdi Zamani, and Mohammad Reza Jamali . "preconcentration and determination of trace chromium using 1-2-pyridylazo 2-naphthol (PAN) immobilized on surfactant coated alumina." International Journal of Chemical Engineering and Applications 12, no. 1 (2002): 21-27.
- 12) Farzaneh Shemirani, and Majid Baghdadi . "In situ solvent formation microextraction based ionic liquids A novel sample preparation technique for determination of inorganic species in saline solutions." ANALYTICA CHIMICA ACTA 634, no. 2 (2002): 186-191.
- 13) Farzaneh Shemirani, Mehdi Zamani , and Mohammad Reza Jamal . "Preconcentration and determination of trace chromium using 1 - c2 - Pyridylazon1 - 2 - Naphtol (PAN) immobilized on Surfactant - coated alumina." International J.Chem 12, no. --- (2002): 21-27.
- 14) Farzaneh Shemirani, Reyhaneh Rahnama Kozani , Masood Salavati Niasari , Shiva Dehghan Abkenar , Mohammad Reza Jamali , and Aazam Alsadat Mirroshandel . "determination of Ni and Co by FAAS after preconcentration on modified alumina column." Indian Journal of Chemistry - Section A Inorganic, Physical, Theoretical and Analytical Chemistry 42, no. 5 (2003): 1086-1088.
- 15) Farzaneh Shemirani, Fatemeh Razzaz Rahmati , and Mohammad Ali Hajimoosa . "kinetic spectrophotometric determination of trace amounts of manganese by its catalytic effect on the oxidation of methylorange with periodate." Indian Journal of Chemistry - Section A Inorganic, Physical, Theoretical and Analytical Chemistry 42, no. 1 (2003): 97-99.
- 16) Rahmati , Farzaneh Shemirani, and Fatemeh Razzaz . "Kinetic - Spectrophotometric determination of trace amounts of manganese (II) Ly it,s catalytic effect on the oxidation of methyl orange with periodate." Indian Journal of Chemistry - Section A Inorganic, Physical, Theoretical and Analytical Chemistry 42, no. 1 (2003): 97-99.
- 17) Farzaneh Shemirani, Sd Abkenar , and Mr Jamali . "Preconcentration of Trace Uranium from Natural Water with Solid - Phase Extraction." BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN 76, no. 3 (2003): 545-548.
- 18) Farzaneh Shemirani, Sd Abkenar , Aa Mirroshandel , Ms Niasari , and Kozania Rr . "preconcentration and speciation of chromium in water samples by atomic absorption spectrometry after cloud point extraction." Analytical Sciences 19, no. 10 (2003): 1453-1456.
- 19) Farzaneh Shemirani, Shiva Dehghan Abkenar , and Asieh Khatouni . "determination of trace amounts of lead and copper in water samples by flame atomic absorption spectrometry after cloud point extraction." BULLETIN OF THE KOREAN CHEMICAL SOCIETY 25, no. 8 (2004): 1133-1136.
- 20) Farzaneh Shemirani, and . "the application of cloud point extraction for preconcentration and speciation of chromium by flame atomic absorption spectrometry." CANADIAN JOURNAL OF ANALYTICAL SCIENCES AND SPECTROSCOPY -, no. --- (2004): -.
- 21) Farzaneh Shemirani. "determination of trace amounts of lead and copper in water samples by flame atomic absorption spectrometry after cloud point extraction." BULLETIN OF THE KOREAN CHEMICAL SOCIETY 41146, no. --- (2004): -.
- 22) Farzaneh Shemirani, Shiva Dehghan Abkenar , and Mohammad Reza Jamali . "Termination of cadmium (II) , copper (II) and zinc (II) in water samples by flame atomic absorption spectrometry after cloud point extraction." Journal of Chemistry -, no. --- (2005): -.
- 23) Farzaneh Shemirani, Reyhaneh Rahnama Kozani , Mohammad Reza Jamali , Yaghoob Assadi , and Seyyed Mohammad Reza Milani . " micelle - mediated extraction for direct spectrophotometric determination of trace uranium (VI) in water samples." SEPARATION SCIENCE AND TECHNOLOGY 40, no. 12 (2005): 2527-2537.
- 24) Farzaneh Shemirani, Majid Baghdadi, and M Ramezani . "preconcentration and determination of ultra trace amounts of arsenic III and arsenic V in tap water and total arsenic in biological samples by cloud point extraction and electrothermal atomic absorption spectrometry." TALANTA -, no. 65 (2005): 882-887.
- in water samples by flame atomic absorption spectrometry after cloud point extraction." Indian Journal of Chemistry -, no. 44A (2005): -.
- 25) Farzaneh Shemirani, and محمد رضا جمالی . "determination of cadmium copper and zinc

- Cathodic Stripping Voltammetry." CANADIAN JOURNAL OF ANALYTICAL SCIENCES AND SPECTROSCOPY 50, no. 4 (2005): 175-181.
مریم , Alireza Asgari , and محمد رضا میلانی-حسینی . "Simultaneous Determination of Trace Amounts of Lead and Zinc by Adsorptive
26) Farzaneh Shemirani, رحبی
- 27) Farzaneh Shemirani, Mohammad Reza Jamali , and Reyhane Rahnama Kazani . "Cloud point extraction and preconcentration for the determination of Cu and Ni in Natural water by flame atomic absorption spectrometry." SEPARATION SCIENCE AND TECHNOLOGY 41, no. 13 (2006): 3065-3077 .
- 28) Farzaneh Shemirani, Reyhaneh Rahnama Kozania , Mohammad Reza Jamali , Yaghoob Assadi , and Mohammad Reza Milani Hosseini . "Cloud - point extraction, preconcentration, and spectrophotometric determination of palladium in water samples." INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 86, no. 14 (2006): 1105-1112.
- 29) Farzaneh Shemirani, Majid Baghdadi, and M Ramezani . "preconcentration and determination of ultra t race amounts of arsenic (III) and arsenic (V) in tap water and total arsenic in biological samples by cloud point extraction and electrothermal atomic absorption spectrometry." TALANTA 65, no. 4 (2006): 882-887.
- 30) S Dehghan Abkenar , Y Yamini , Y Assadi , and Farzaneh Shemirani. "Solid phase microextraction with gas chromatography - mass spectrometry : a very rapid method for identification of volatile organic compounds emitted by carum copticum." NATURAL PRODUCT RESEARCH 9, no. 20 (2006): 859-850.
- 31) Farzaneh Shemirani, and Nader Shokoufi . "Laser induced thermal lens spectrometry for cobalt determination after cloud point extraction." ANALYTICA CHIMICA ACTA 577, no. 2 (2006): 243-238.
- 32) Taghub Asadi , Reyhane Rahnam Kuzani , Farzaneh Shemirani, Majid Master Farahani , Mohammadreza Jamali , Mohammadreza Hosseini , and Masoud Salavati Niasari . "Synthesis of salicylaldehyde - modified mesoporous silica snd its application as a new sorbent for separation , preconcentration and determination of uranium by inductively coupled plasma atomic emission spectrometry." ANALYTICA CHIMICA ACTA 579, no. 1 (2006): 73-68.
- 33) Farzaneh Shemirani, Reyhaneh Rahnama Kozani , and Yaghoob Assadi . "Development of a cloud point extraction and preconcentration method or silver prior to flame atomic absorption spectrometry." MICROCHIMICA ACTA 157, no. 1 (2006): 85-81.
- 34) Farzaneh Shemirani, Maryam Rajabi , Ali Reza Asgari , and Mohammad Milani Hosseini . "Simultaneous determination of traces of cadmium and zinc by adsorptive stripping voltammetry." CANADIAN JOURNAL OF ANALYTICAL SCIENCES AND SPECTROSCOPY 50, no. --- (2007): 181-175.
- 35) Farzaneh Shemirani, and Seyed Reza Yousefi . "selective extraction and preconcentration of ceriu (IV) in water samples by cloud point extraction and determination by inductively coupled plasms optical emission spectrometry." MICROCHIMICA ACTA 157, no. 3 (2007): 223-227.
- 36) Farzaneh Shemirani, Mohammad Reza Jamali , and Reyhaneh Rahnama Kozani . "Cloud point extraction and spectrophotometric determination of copper (II) in natural waters." Chemia analityczna 52, no. --- (2007): 327-336.
- 37) Mohammad Reza Jamali , Yaghoob Assadi , Farzaneh Shemirani, and Masoud Salavati Niasari . "Application of thiophene - 2 - carbaldehyde - modified mesoporous silica as a new sorbent for separation and preconcentration of palladium prior to inductivelycoupled plasma atomic emission spectrometric determination." TALANTA 71, no. 4 (2007): 1524-1529.
- 38) Reyhaneh Rahnama Kozanic , Yaghoob Assadia , Farzaneh Shemirani, Mohammad Reza Milani Hosseini , and Mohammad Reza Jamali . "Part - per - trillion determination of chlorobenzenes in water using dispersive liquid - liquid microextraction combined gas chromatography - electron capture detection." TALANTA 72, no. 2 (2007): 393-387.
- 39) Mohammad Reza Jamali , Yaghoob Assadi , and Farzaneh Shemirani. "Homogeneous Liquid - Liquid Extraction and Determination of Cobalt, Copper, and Nickel in Water Samples by Flame Atomic Absorption Spectrometry." SEPARATION SCIENCE AND TECHNOLOGY 42, no. 15 (2007): 3503-3515.
- 40) Nader Shokofi , Farzaneh Shemirani, and Y Assadi . "Fiber optic - linear array detection spectrophotometry in combination with dispersive liquid - liquid microextraction for simulataneous preconcentration and determination of palladium and cobalt." ANALYTICA CHIMICA ACTA 597, no. 2 (2007): 356-349.

- 41) Nader Shokoufi , and Farzaneh Shemirani. "Laser induced - thermal lens spectrometry after cloud point extraction for the determination of trace amounts of rhodium." *TALANTA* 73, no. 4 (2007): 667-662.
- 42) Maysam Gharehbaghia , Farzaneh Shemirani, and Majid Baghdadia . "Dispersive liquid - liquid microextraction based on ionic liquid and spectrophotometric determination of mercury in water samples." *INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY* 89, no. 1 (2008): 23-21.
- 43) Shiva Dehghan Abkenar , Yadollah Yamini , Farzaneh Shemirani, and Yaghoub Assadi . "Headspace Solid Phase Microextraction Using Porous - Layer Activated Charcoal Coating Fused Silica Fiber for Identification of Volatile Organic Compound Emitted by *Zataria multiflora* Boiss." *Chemia analityczna* 53, no. 2 (2008): 277-287.
- 44) Mohammad Reza Jamali , Yaghoub Assadi , Reyhaneh Rahnama Kozani , and Farzaneh Shemirani. "Homogeneous liquid - liquid extraction method for selective separation and preconcentration of trace amounts of palladium." *E-Journal of Chemistry* 6, no. 4 (2009): 1077-1084.
- 45) Seyed Reza Yousefia , Seyed Javad Ahmadib , Farzaneh Shemirani, and Mohammad Reza Jamalic . "Simultaneous extraction and preconcentration of uranium and thorium in aqueous samples by new modified mesoporous silica prior to inductively coupled plasma optical emission spectrometry determination." *TALANTA* 80, no. 212-217 (2009): 212-217.
- 46) Nader Shokoufia , and Farzaneh Shemirani. "Laser induced - thermal lens spectrometry after cloud point extraction for the determination of trace amounts of palladium." *SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY* 74, no. 766-761 (2009): 761-766.
- 47) Farzaneh Shemirani, and محمد رضا ملاح , مهدی فنادی مراغه . "Simultaneous preconcentration of samarium europium gadolinium and dysprosium." *JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY* 278, no. 1 (2009): 102-97" .use of dispersive liquid - liquid
- 48) Majid Bagdadi, and Farzaneh Shemirani. "cold -induced aggregation microextraction :A novel samplen preparation technique based on ionic liquid." *ANALYTICA CHIMICA ACTA* 613, no. 1 (2009): 63-56.
- 49) Mohammad Ghannad Maragheh , Farzaneh Shemirani, and Mohammad Hasan Mallah . "Ionic liquids for simultaneous preconcentration of some lanthanoids using dispersive liquid - liquid microextraction technique in uranium dioxide powder." *ENVIRONMENTAL SCIENCE & TECHNOLOGY* 43, no. 6 (2009): 1947-1951.
- 50) Maysam Gharehbaghi , Farzaneh Shemirani, and Malihe Davudabadi Farahani . "cold induced aggregation based on ionic liquids and fiber optic - linear array detection spectrophotometry of cobalt in water samples." *JOURNAL OF HAZARDOUS MATERIALS* 165, no. 3 (2009): 1049-1055.
- 51) Seyyed Reza Yousefi , Farzaneh Shemirani, and Mohammad Reza Jamali . "Determination of antimony (III) and total antimony in aqueous samples by electrothermal atomic absorption spectrometry after dispersive liquid - liquid microextraction (DLLME)." *ANALYTICAL LETTERS* 43, no. 16 (2010): 2563-2571.
- 52) Seyed Reza Yousefi , Farzaneh Shemirani, Mohammad Reza Jamali , and Masoud Salavati Niasari . "extraction and preconcentration of ultra trce amounts of beryllium from aqueous samples by nanometer mesoporous silica functionalized by 24 - dihydroxybenzadehyde prior to ICP OES determination." *MICROCHIMICA ACTA* 169, no. 3,4 (2010): 241-248.
- 53) Farzaneh Shemirani, and Shokouh Mahpishanian . "Ionic liquid - based modified cold - induced aggregation microextraction (M - CIAME) as a novel solvent extraction method for determination of gold in saline solutions." *MINERALS ENGINEERING* 23, no. 10 (2010): 823-825.
- 54) Shokooh Mahpishanian , and Farzaneh Shemirani. "preconcentration procedure using in situ solvent formation microextraction in the presence of ionic liquid for cadmium determination in saline samples by flame atomic absorption spectrometry." *TALANTA* 82, no. 2 (2010): 471-476.
- 55) Seyed Reza Yousefi , and Farzaneh Shemirani. "development of a robust ionic liquid-based dispersive liquid-liquid microextraction against high cocentration of salt for preconcentration of trace metals in saline aqueous samplesApplication to the determination of Pb and Cd." *ANALYTICA CHIMICA ACTA* 669, no. 1,2 (2010): 25-31.

- 56) Maryam Ezoddin , Farzaneh Shemirani, Khosro Abdi , Maryam Khosravi Saghezchi , and Mohamad Reza Jamali . "Application of modified nano - alumina as a solid phase extraction sorbent for the preconcentration of Cd and Pb in water and herbal samples prior to flame atomic absorption spectrometry determination." JOURNAL OF HAZARDOUS MATERIALS 178, no. 1-3 (2010): 900-905.
- 57) Meysam Vaezzadeh , Farzaneh Shemirani, and Behroz Majidi . "microextraction technique based on ionic liquid for preconcentration and determination of palladium in food additive sea water tea and biological samples." FOOD AND CHEMICAL TOXICOLOGY 48, no. 48 (2010): 1455-1460.
- 58) Mohammad Ghand Maraghe , Mohammadreza Jamali , Mohammad Hasan Malah , and Farzaneh Shemirani. "Evaluation of synergism in dispersive liquid - liquid microextraction for simultaneous preconcentration some of lanthanoids." JOURNAL OF MOLECULAR LIQUIDS 151, no. 41308 (2010): 122-124.
- 59) Maryam Ezoddin , Farzaneh Shemirani, and Rouhollah Khani . "Application of mixed - micelle cloud point extraction for speciation analysis of chromium in water samples by electrothermal atomic absorption spectrometry." Desalination 262, no. 1-3 (2010): 183-187.
- 60) Rouhollah Khani , and Farzaneh Shemirani. "Determination of Trace Levels of Nickel and Manganese in Soil Vegetable and Water." CLEAN-Soil Air Water 38, no. 12 (2010): 1177-1183.
- 61) Zohre Zarei , and Farzaneh Shemirani. "Modified - cold induced aggregation microextraction based on ionic liquid and fibre optic - linear array detection spectrophotometric determination of palladium in saline solutions." INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 91, no. 15 (2011): 1436-1446.
- 62) Meysam Gharehbaghi , and Farzaneh Shemirani. "Ionic liquid - based dispersive liquidliquid microextraction and enhanced spectrophotometric determination of molybdenum (VI in water and plant leaves samples by FO - LADS)." FOOD AND CHEMICAL TOXICOLOGY 49, no. 2 (2011): 423-428.
- 63) Sanaz Jafarvand , and Farzaneh Shemirani. "Supramolecular - based dispersive liquid - liquid microextraction : A novel sample preparation technique for determination of inorganic species." MICROCHIMICA ACTA 173, no. 3 (2011): 353-359.
- 64) Rouhollah Khani , Farzaneh Shemirani, and Behrooz Majidi . "Combination of dispersive liquid - liquid microextraction and flame atomic absorption spectrometry for preconcentration and determination of copper in water samples." Desalination 226, no. 3 (2011): 238-243 .
- 65) Behrooz Majidi , Farzaneh Shemirani, and Rouhollah Khani . "Evaluation of Response Surface Methodology in Dispersive Liquid - Liquid Microextraction for Lead Determination Using Ionic Liquids." American Journal of Analytical Chemistry 2, no. 8 (2011): 892-901.
- 66) Sanaz Jafarvand , and Farzaneh Shemirani. "Supramolecular - based dispersive liquid - liquid microextraction : A novel sample preparation technique utilizes coacervates and reverse micelles s." JOURNAL OF SEPARATION SCIENCE 34, no. 4 (2012): 455-461.
- 67) Tayebeh Taghizadeh , Farzaneh Shemirani, Mohammad Ali Karimi , Khosro Abdi , and Maryam Ezoddin . "Modified nanoalumina sorbent for sensitive trace cobalt determination in environmental and food samples by flame atomic absorption spectrometry." INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 92, no. 11 (2012): 1302-1311.
- 68) Zohre Zaree , and Farzaneh Shemirani. "Determination of Nickel in Food Samples by Flame Atomic Absorption Spectroscopy after Preconcentration and Microextraction Based Ionic Liquids Using Full Factorial and Central Composite Design." JOURNAL OF FOOD SCIENCE 77, no. 12 (2012): 1242-1248.
- 69) Farzaneh Shemirani, and Behrooz Majidi. "Salt - assisted liquid - liquid microextraction of Cr (VI) ion using an ionic liquid for preconcentration prior to its determination by flame atomic absorption spectrometry." MICROCHIMICA ACTA 176, no. 1-2 (2012): 143-151.
- 70) Rouhollah Khani , and Farzaneh Shemirani. "Simultaneous Determination of Trace Amounts of Cobalt and Nickel in Water and Food Samples Using a Combination of Partial Least Squares Method and Dispersive Liquid - Liquid Microextraction Based on Ionic Liquid." Food Analytical Methods 4, no. 4 (2012): -.
- 71) Elahe Kazemi , Nader Shokoufi , and Farzaneh Shemirani. "Speciation and preconcentration of iron by cloud point extraction combined with fibre optic linear array detection spectrophotometry." CHEMICAL SPECIATION AND BIOAVAILABILITY 23, no. 4 (2012): 249-255.

- 72) Behroz Majidi , and Farzaneh Shemirani. "solvent based de - emulsification dispersive liquid liquid microextraction of palladium in environmental samples and determination by electrothermal atomic absorption spectrometry." TALANTA 93, no. --- (2012): 245-251.
- 73) Alireza Rezaie Rod , Shahin Borhani , and Farzaneh Shemirani. "Cloud point preconcentration and flame atomic absorption spectrometry : application to the determination of manganese in milk and water samples." EUROPEAN FOOD RESEARCH AND TECHNOLOGY 223, no. 5 (2012): 649-653.
- 74) Seyed Reza Yousefi, and Farzaneh Shemirani. "Novel method for in - situ surfactant - based solid - phase extraction : application to the determination of Co (II) and Ni (II) in aqueous samples." MICROCHIMICA ACTA 173, no. 3 (2012): 415-421.
- 75) Meysam Eisapour , Farzaneh Shemirani, Behrooz Majidi , and Majid Baghdadi. "Ultrasound assisted cold - induced aggregation: an improved." MICROCHIMICA ACTA 177, no. 4 (2012): 349-355.
- 76) Malihe Dehghani Mohammad Abadi , Narges Ashraf , Mahmoud Chamsaz , and Farzaneh Shemirani. "An overview of liquid phase microextraction approaches combined with UV - Vis spectrophotometry." TALANTA 99, no. 15 (2012): 1-12.
- 77) Mohsen Taziki , Farzaneh Shemirani, and Behrooz Majidi . "Robust ionic liquid against high concentration of salt for preconcentration and determination of rhodamine B." SEPARATION AND PURIFICATION TECHNOLOGY 97, no. --- (2012): 216-220.
- 78) Malihe Davudabadi Farahani, and Farzaneh Shemirani. "Supported hydrophobic ionic liquid on magnetic nanoparticles as a new sorbent for separation and preconcentration of lead and cadmium in milk and water sample." MICROCHIMICA ACTA 179, no. 3-4 (2012): 219-226.
- 79) Parisa Yasini , Farzaneh Shemirani, and Rouhollah Khani . "Combination of In Situ Surfactant - based Solid Phase Extraction and Central Composite Design for Preconcentration and Determination of Manganese in Food and Water Samples." Food Analytical Methods 5, no. 6 (2012): 1303-1310.
- 80) Malihe Davudabadi Farahani, Farzaneh Shemirani, and Meisam Garebaghi. "Ferrofluid-based dispersive solid phase extraction of palladium." TALANTA 109, no. 109 (2013): 121-127.
- 81) Farzaneh Shemirani, Mostafa Hossein Baki, and Rohollah Khani. " Potential of Sawdust as a Green and Economical Sorbent for Simultaneous Preconcentration of Trace Amounts of Cadmium, Cobalt, and Lead from Water, Biological, Food, and Herbal Samples." Journal of Food Science Education 78, no. 5 (2013): 797-804.
- 82) Seyedeh Mahboobeh Yousefi, and Farzaneh Shemirani. "Selective and sensitive speciation analysis of Cr(VI) and Cr(III) in water samples by fiber optic-linear array detection spectrophotometry after ion pair based-surfactant assisted dispersive liquid-liquid microextraction." JOURNAL OF HAZARDOUS MATERIALS 254-255, no. 1 (2013): 134-140.
- 83) Gazaleh Daneshvar Tarigh, and Farzaneh Shemirani. "Magnetic multi-wall carbon nanotube nanocomposite as an adsorbent for preconcentration and determination of lead (II) and manganese (II) in various matrices ." TALANTA 115, no. 115 (2013): 744-750.
- 84) Nasibeh Saidzadeh Amiri, Farzaneh Shemirani, and Rohollah Khani. "Combination of cold-induced aggregation microextraction and central composite design for preconcentration and determination of copper in food and water samples." Desalination and Water Treatment 51, no. 22-24 (2013): 4622-4629.
- 85) Malihe Davoodabadi Farahani, and Farzaneh Shemirani. "Ferrofluid based dispersive-solid phase extraction for spectrophotometric determination of dyes." JOURNAL OF COLLOID AND INTERFACE SCIENCE 407, no. 1 (2013): 250-254.
- 86) Mohsen Taziki, Farzaneh Shemirani, and Behrooz Majidi. "Robust Ionic Liquid-Based Dispersive Liquid-Liquid Microextraction Method for Determination of Chromium(VI) in Saline Solutions." COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS 44, no. 22 (2013): 3400-3411.
- 87) Seyedeh Mahboobeh Yousefi, and Farzaneh Shemirani. "High-density solvent-based de-emulsification microextraction technique combined with fiber optic-linear array detection spectrometry for fast determination of ppb-level phenol index." Desalination and Water Treatment 1, no. 1 (2013): 1-8.
- 88) Mohsen Taziki, Farzaneh Shemirani, and Behrooz Majidi. "Robust Ionic Liquid-Based Dispersive Liquid-Liquid Microextraction Method for Determination of Chromium(VI) in Saline Solutions." COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS 44, no. 22 (2013): 3400-3411.

- 89) Azam Azarkohan, and Farzaneh Shemirani. "Fast analysis of water samples for trace amount of crystal violet dye based on solid phase extraction using nanoporous SBA-3 prior to determination by fiber optic-linear array detection spectrophotometry." *Journal of Chemistry* 1, no. 1 (2013): 1-81.
- 90) Mehdi Tavakoli, Farzaneh Shemirani, and Mannan Hajimahmoodi. "Magnetic Mixed Hemimicelles Solid-Phase Extraction of Three Food Colorants from Real Samples." *Food Analytical Methods* 7, no. 7 (2013): 100-108.
- 91) Rohollah Khani, Jahanbakhsh Ghasemi, and Farzaneh Shemirani. "Simultaneous multicomponent spectrophotometric monitoring of methyl and propyl parabens using multivariate statistical methods after their preconcentration by robust ionic liquid-based dispersive liquid-liquid microextraction." *SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY* 122, no. 1 (2014): 295-303.
- 92) Behzad Torabi, and Farzaneh Shemirani. "A new approach to highly sensitive determination of retinoic acid isomers by preconcentration with CdSe quantum dots." *TALANTA* 120, no. 1 (2014): 34-39.
- 93) Mahrouz Alvand, and Farzaneh Shemirani. "Preconcentration of trace cadmium ion using magnetic graphene nanoparticles as an efficient adsorbent." *MICROCHIMICA ACTA* 181, no. 1-2 (2014): 181-188.
- 94) Gazaleh Daneshvar Tarigh, and Farzaneh Shemirani. "Simultaneous in situ derivatization and ultrasound-assisted dispersive magnetic solid phase extraction for thiamine determination by spectrofluorimetry." *TALANTA* 123, no. 123 (2014): 71-77.
- 95) Rouhollah Khani, Jahan Bakhsh Ghasemi, and Farzaneh Shemirani. "Simultaneous multicomponent spectrophotometric monitoring of methyl and propyl parabens using multivariate statistical methods after their preconcentration by robust ionic liquid-based dispersive liquid-liquid microextraction." *SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY* 122, no. 0 (2014): 295-303.
- 96) Mostafa Hossein Baki, Farzaneh Shemirani, and Rohollah Khani. "Applicability of diclofenac-montmorillonite as a selective sorbent for adsorption of palladium(II); Kinetic and thermodynamic studies." *Food Analytical Methods* 6, no. 6 (2014): 1875-1883.
- 97) Rohollah Khani, Jahanbakhsh Ghasemi, and Farzaneh Shemirani. "Second-order data obtained by beta-cyclodextrin complexes: A novel approach for multicomponent analysis with three-way multivariate calibration methods." *TALANTA* 128, no. 128 (2014): 254-262.
- 98) Mehdi Tavakoli, Manan Haji Mahmoodi, and Farzaneh Shemirani. "Trace level monitoring of pesticides in water samples using fatty acid coated magnetic nanoparticles prior to GC-MS." *TALANTA* 6, no. 9 (2014): 2988-2997.
- 99) Gazaleh Daneshvar Tarigh, and Farzaneh Shemirani. "Development of a selective and pH-independent method for the analysis of ultra trace amounts of nitrite in environmental water samples after dispersive magnetic solid phase extraction by spectrofluorimetry." *TALANTA* 128, no. c (2014): 354-359.
- 100) Ehsan Mohammadifar, Farzaneh Shemirani, , and . "Application of modified nano- γ -alumina as an efficient adsorbent for removing malachite green (MG) from aqueous solution." *Desalination and Water Treatment* 1, no. 115 (2014): 1-11.
- 101) Negin Fasih Ravandi, Farzaneh Shemirani, and Malihe Davudabadi Farahani. "Dispersive solid phase extraction of lead(II) using a silica nanoparticle-based ionic liquid ferrofluid." *MICROCHIMICA ACTA* 181, no. 181 (2014): 1833-1841.
- 102) Mostafa Hossein Bagi, Farzaneh Shemirani, and Rohollah Khani. "Green preconcentration of trace amounts of copper from water and food samples onto novel organo-nanoclay prior to flame atomic absorption spectrometry." *JOURNAL OF AOAC INTERNATIONAL* 97, no. 5 (2014): 1426-1433.
- 103) Mehrnoosh Bayat, Farzaneh Shemirani, Mostafa Hossein Bagi, and Malihe Davoodabadi Farahani. "Ionic liquid-modified Fe₃O₄ nanoparticle combined with central composite design for rapid preconcentration and determination of palladium ions." *Desalination and Water Treatment* 1, no. 1 (2014): 1-12.
- 104) Negin Fasih Ravandi, and Farzaneh Shemirani. "Selective ionic liquid ferrofluid based dispersive-solid phase extraction for simultaneous preconcentration/separation of lead and cadmium in milk and biological samples." *TALANTA* 131, no. 131 (2014): 404-411.
- 105) Mostafa Hossein Bagi, Mehrnoosh Bayat, Simin Miri, Farzaneh Shemirani, and Hassan Aljani. "Synthesis, characterization, and silver adsorption property of magnetic cellulose xanthate from acidic solution: Prepared by one step and biogenic approach." *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH* 53, no. 53 (2014): 14904-14912.

- 106) Hassan Alijani, Mostafa Hossein Bagi, Mehrnoosh Bayat, and Farzaneh Shemirani. "A new approach for one step synthesis of magnetic carbon nanotubes/diatomite earth composite by chemical vapor deposition method: Application for removal of lead ions." *CHEMICAL ENGINEERING JOURNAL* 253, no. 253 (2014): 456-463.
- 107) Mojgan Jafari Pirouz, Mostafa Hossein Bagi, and Farzaneh Shemirani. "Anhydride functionalised calcium ferrite nanoparticles: A new selective magnetic material for enrichment of lead ions from water and food samples." *FOOD CHEMISTRY* 170, no. 170 (2014): 131-137.
- 108) Malihe Davudabadi Farahani, and Farzaneh Shemirani. "Mixed hemi-micelle solid-phase extraction based on modified magnetic nanoparticles for extraction of cadmium and lead from food and water samples." *Computer Supported Cooperative Work-The Journal of Collaborative Computing* 97, no. 6 (2014): 1682-1688.
- 109) Mostafa Hossein Bagi, Farzaneh Shemirani, and Rohollah Khani. "Green Preconcentration of Trace Amounts of Copper from Water and Food Samples onto Novel Organo-Nanoclay Prior to Flame Atomic Absorption Spectrometry." *JOURNAL OF AOAC INTERNATIONAL* 97, no. 5 (2014): 1426-1433.
- 110) Malihe Davoud Abadi Farahani, Farzaneh Shemirani, Negin Fasih Ravandi, and Meisam Garebaghi. "Ionic Liquid as a Ferrofluid Carrier for Dispersive Solid Phase Extraction of Copper from Food Samples." *Food Analytical Methods* 8, no. 8 (2015): 1979-1989.
- 111) Negin Fasih Ravandi, and Farzaneh Shemirani. "Selective ionic liquid ferrofluid based dispersive-solid phase extraction for simultaneous preconcentration/separation of lead and cadmium in milk and biological samples.." *TALANTA* 131, no. 131 (2015): 404-411.
- 112) Rana Golshaie, Farzaneh Shemirani, and Malihe Davudabadi Farahani. "Combination of solid phase extraction based on nano alumina and liquid-liquid extraction for selective determination of palladium in food samples." *Analytical Chemistry* 70, no. 3 (2015): 310-315.
- 113) Ehsan Mohammadifar, Farzaneh Shemirani, and Behrooz Majidi. "A new sorbent of modified MWCNT for solid phase extraction and determination of trace amount of palladium in environmental samples." *JOURNAL OF ANALYTICAL CHEMISTRY* 70, no. 2 (2015): 136-142.
- 114) Mehrnoosh Bayat, Mostafa Hosseinbaki, and Farzaneh Shemirani. "One-step and biogenic synthesis of magnetic Fe₃O₄-Fir sawdust composite: Application for selective preconcentration and determination of gold ions." *JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY* 21, no. 21 (2015): 912-919.
- 115) Seyed Mahboobeh Yousefi, and Farzaneh Shemirani. "High-density solvent-based de-emulsification microextraction technique combined with fiber optic-linear array detection spectrometry for fast determination of ppb-level phenol index." *Desalination and Water Treatment* 53, no. 53 (2015): 752-759.
- 116) Mojgan Jafari Pirouz, Mostafa Hosseinbaki, and Farzaneh Shemirani. "Anhydride functionalised calcium ferrite nanoparticles: A new selective magnetic material for enrichment of lead ions from water and food samples." *FOOD CHEMISTRY* 170, no. 170 (2015): 131-135.
- 117) Gazaleh Daneshvar Tarigh, Farzaneh Shemirani, and Nezam Seif Maz'hari. "Fabrication of a reusable magnetic multi-walled carbon nanotube-TiO₂ nanocomposite by electrostatic adsorption: enhanced photodegradation of malachite green." *RSC Advances* 5, no. 5 (2015): 35070-35079.
- 118) Negin Fasih Ravandi, and Farzaneh Shemirani. "Surfacted ferrofluid based dispersive solid phase extraction; a novel approach to preconcentration of cationic dye in shrimp and water samples." *FOOD CHEMISTRY* 185, no. 185 (2015): 398-404.
- 119) Kazem Darvish Bastami, Mahmoud Reza Neyestani, Farzaneh Shemirani, Farzaneh Soltani, Sara Haghparast, and Atefeh Akbar. "Heavy metal pollution assessment in relation to sediment properties in the coastal sediments of the southern Caspian Sea." *MARINE POLLUTION BULLETIN* 92, no. 1 (2015): 237-2431.
- 120) Mostafa Hossein Baki, and Farzaneh Shemirani. "Dual application of facilely synthesized Fe₃O₄ nanoparticles: Fast reduction of nitro compound and preparation of magnetic polyphenylthiourea nanocomposite for efficient adsorption of lead ions." *RSC Advances* 2, no. 2 (2015): 22224.

- 121) Ali Akbar Sehat, Abbasali Khodadadi, Farzaneh Shemirani, and Yadallah Mortazavi. "Fast immobilization of glucose oxidase on graphene oxide for highly sensitive glucose biosensor fabrication." *International Journal of Electrochemical Science* 10, no. 10 (2015): 272-286.
- 122) Rouhollah Khani, Jahan Bakhsh Ghasemi, Farzaneh Shemirani, and Reza Rahmadian. "Application of bilinear least squares/residual bilinearization in bulk liquid membrane system for simultaneous multicomponent quantification of two synthetic dyes." *CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS* 144, no. 0 (2015): 48-55.
- 123) Gazaleh Daneshvar Tarigh, Farzaneh Shemirani, and Nezam Seif Mazaheri. "Fabrication of a reusable magnetic multi-walled carbon nanotube-TiO₂ nanocomposite by electrostatic adsorption: Enhanced photodegradation of malachite green." *RSC Advances* 44, no. 5 (2015): 35070-35079.
- 124) Mahsa Shirekhodaie, Mostafa Hossein Baki, and Farzaneh Shemirani. "Biogenic synthesis of magnetic perlite@iron oxide composite: application as a green support for dye removal." *Desalination and Water Treatment* 57, no. 25 (2015): 11859-11871.
- 125) Ali Mehdinia, Sahar Shegefti, and Farzaneh Shemirani. "A novel nanomagnetic task specific Ionic liquid as A selective sorbent for the trace determination of cadmium in water and fruit samples." *TALANTA* 144, no. 144 (2015): TALD1501812.
- 126) Ali Mehdinia, Sahar Shegefti, and Farzaneh Shemirani. "Removal of lead(II), copper(II) and zinc(II) ions from aqueous solutions using magnetic amine-functionalized mesoporous silica nanocomposites." *JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY* 11, no. 26 (2015): 2249-2257.
- 127) Negin Fasih Ravandi, and Farzaneh Shemirani. "Surfacted ferrofluid based dispersive solid phase extraction; A novel approach to preconcentration of cationic dye in shrimp and water samples." *FOOD CHEMISTRY* 185, no. 185 (2015): 398-404.
- 128) Gazaleh Daneshvar Tarigh, and Farzaneh Shemirani. "In situ immobilization of a general resolving agent on the magnetic multi-wall carbon nanotube for the direct enantioenrichment of dl-mandelic acid." *TALANTA* 144, no. 144 (2015): 899-907.
- 129) Hamid Reza Ahmadpoor, and Farzaneh Shemirani. "Modifying ASTM standard method by using homogeneous liquid-liquid microextraction combined with fiber optic UV-vis spectrometry for a greener approach to determination of total phenols in water." *JOURNAL OF ANALYTICAL CHEMISTRY* 70, no. 12 (2015): 1441-1447.
- 130) Nafiseh Khoddami, and Farzaneh Shemirani. "A new magnetic ion-imprinted polymer as a highly selective sorbent for determination of cobalt in biological and environmental samples." *TALANTA* 146, no. 146 (2016): 244-252.
- 131) Mohmoud Reza Neystani, Kazem Darvish Bastami, Marjan Esmailzadeh, Farzaneh Shemirani, Aida Khazali, Neda Molla Mohyeddin, Majid Afkhami, Shahram Nourbakhsh, Mohsen Dehghani, Sina Aghaei, and Mohammad Firoozbakht. "Geochemical speciation and ecological risk assessment of selected metals in the surface sediments of the northern Persian Gulf." *MARINE POLLUTION BULLETIN* 109, no. 109 (2016): 603-611.
- 132) Ali Mehdinia, Sahar Shegefti, and Farzaneh Shemirani. "A novel nanomagnetic task specific ionic liquid as a selective sorbent for the trace determination of cadmium in water and fruit samples." *TALANTA* 144, no. 144 (2016): 1266-1272.
- 133) Zahra Shakeri Kerdar, Mostafa Hosseinbaki, and Farzaneh Shemirani. "Development of an efficient enrichment system for copper determination in water and food samples based on p-phenylenediamine anchored magnetic titanium dioxide nanowires." *INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY* 96, no. 13 (2016): 1276-1289.
- 134) Mostafa Hossein Bagi, Simin Miri, Farzaneh Shemirani, Mehrnoosh Bayat, and Parviz Rashidi Ranjbar. "A New Derivative of Core-Shell Magnetic Chitosan Biopolymer: Synthesis, Characterization and Application for Adsorption of Lead and Copper Ions." *CLEAN-Soil Air Water* 44, no. 6 (2016): 710-719.
- 135) Mostafa Hosseinbaki, Farzaneh Shemirani, and Mahsa Shirekhodaie. "aqueous Co(II) adsorption using 8-hydroxyquinoline anchored γ -Fe₂O₃@chitosan with Co(II) as imprinted ions." *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES* 87, no. 87 (2016): 375-384.
- 136) , Foujan Falaki, and Farzaneh Shemirani. "Highly facile supported liquid membrane transport and removal of silver ion using dibenzylidiazacrown-6 dissolved in a supramolecular solvent as selective ion carrier." *Desalination and Water Treatment* 57, no. 53 (2016): 25705-25717.

- 137) Mahrooz Alvand, and Farzaneh Shemirani. "Fabrication of Fe₃O₄@graphene oxide core-shell nanospheres for ferrofluid-based dispersive solid phase extraction as exemplified for Cd(II) as a model analyte." *MICROCHIMICA ACTA* 183, no. 183 (2016): 1749-1757.
- 138) Mahsa Shirekhodaie, Mostafa Hosseinbaki, and Farzaneh Shemirani. "Simple route synthesis of MnFe₂O₄ @ alunite composite for preconcentration of trace level of copper and lead from food and water samples." *Desalination and Water Treatment* 57, no. 47 (2016): 22480-22492.
- 139) Sahar Shegefti, Ali Mehdinia, and Farzaneh Shemirani. "Preconcentration of cobalt(II) using polythionine-coated Fe₃O₄ nanocomposite prior its determination by AAS." *MICROCHIMICA ACTA* 183, no. 6 (2016): 1963-1970.
- 140) Mostafa Hosseinbaki, Mahsa Shirekhodaie, Mohammad Ali Karimi, Mohammad Javad Aghagoli, and Farzaneh Shemirani. "Green synthesized Fe₃O₄ nanoparticles as a magnetic core to prepare poly 1, 4 phenylenediamine nanocomposite: employment for fast adsorption of lead ions and azo dye." *Desalination and Water Treatment* 57, no. 59 (2016): 28875-28886.
- 141) Mostafa Hossein Bagi, Mehrnoosh Bayat, and Farzaneh Shemirani. "fabrication of core-shell structured magnetic nanocellulose base polymeric ionic liquid for effective biosorption of Congo red dye." *BIORESOURSE TECHNOLOGY* 218, no. 218 (2016): 326-334.
- 142) Mostafa Hossein Bagi, Farzaneh Feiz, and Farzaneh Shemirani. "Melamine-based dendronized magnetic polymer in the adsorption of Pb(II) and preconcentration of rhodamine B." *REACTIVE & FUNCTIONAL POLYMERS* 103, no. 103 (2016): 81-91.
- 143) Zahra Shakeri Kerdar, Mostafa Hossein Bagi, and Farzaneh Shemirani. "takovite-aluminosilicate@MnFe₂O₄ nanocomposite, a novel magnetic adsorbent for efficient preconcentration of lead ions in food samples." *FOOD CHEMISTRY* 209, no. 209 (2016): 241-247.
- 144) Elnaz Aliyari, Mahrooz Alvand, and Farzaneh Shemirani. "Modified surface-active ionic liquid-coated magnetic graphene oxide as a new magnetic solid phase extraction sorbent for preconcentration of trace nickel." *RSC Advances* 6, no. 69 (2016): 64193-64202.
- 145) Foujan Falaki, Farzaneh Shemirani, and . "Surfactant-assisted transport of lead ion through a bulk liquid membrane containing dicyclohexyl-18-crown-6: efficient removal of lead from blood serum and sea water." *Journal of the Iranian Chemical Society* 13, no. 7 (2016): 1257-1263.
- 146) Zahra Shakeri Kerdar, Mostafa Hossein Bagi, and Farzaneh Shemirani. "Takovite-aluminosilicate@MnFe₂O₄ nanocomposite, a novel magnetic adsorbent for efficient preconcentration of lead ions in food samples." *FOOD CHEMISTRY* 209, no. 209 (2016): 241-247.
- 147) Mostafa Hossein Bagi, Mehrnoosh Bayat, and Farzaneh Shemirani. "Fabrication of core-shell structured magnetic nanocellulose base polymeric ionic liquid for effective biosorption of Congo red dye." *BIORESOURSE TECHNOLOGY* 218, no. 218 (2016): 326-334.
- 148) Mostafa Hossein Bagi, Mehrnoosh Bayat, and Farzaneh Shemirani. "Fabrication of core-shell structured magnetic nanocellulose base polymeric ionic liquid for effective biosorption of Congo red dye." *BIORESOURSE TECHNOLOGY* 218, no. 218 (2016): 326-334.
- 149) Mostafa Hosseinbaki, Farzaneh Feizi, and Farzaneh Shemirani. "Melamine-based dendronized magnetic polymer in the adsorption of Pb(II) and preconcentration of rhodamine B." *REACTIVE & FUNCTIONAL POLYMERS* 103, no. 103 (2016): 81-89.
- 150) Mohammad Javad Aghagoli, and Farzaneh Shemirani. "Hybrid nanosheets composed of molybdenum disulfide and reduced graphene oxide for enhanced solid phase extraction of Pb(II) and Ni(II)." *MICROCHIMICA ACTA* 184, no. 184 (2016): 237-244.
- 151) Hamid Zarei, Simin Naseri, Ramin Nabizadeh Noudehi, Sudabeh Pourfadakari, Farzaneh Shemirani, and Amir Hossein Mahvi. "Evaluation of removal efficiency of fluoride from aqueous solutions using synthesis of nano-scale alumina on multi walled carbon nanotube (MWCNTs): equilibrium and kinetic studies." *Desalination and Water Treatment* 65, no. 65 (2017): 359-366.
- 152) Mostafa Hosseinbaki, Mohammad Hadi Ghasemi, Abbas Jamali, and Farzaneh Shemirani. "A novel polylysine-resorcinol base γ -alumina nanotube hybrid material for effective adsorption/preconcentration of cadmium from various matrices." *JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY* 46, no. 46 (2017): 165-174.
- 153) Abbas Jamali, Alireza Azhdari Tehrani, Farzaneh Shemirani, and Ali Morsali. "Lanthanide metal-organic frameworks as selective microporous materials for adsorption of heavy metal ions." *DALTON TRANSACTIONS* 45, no. 22 (2017): 9193-9200.
- 154) Mostafa Hosseinbaki, Mosleh Mohhammadirad, Farzaneh Shemirani, and Ali Akbar Saboury. "Magnetic cellulose ionomer/layered double hydroxide: An efficient anion exchange platform with enhanced diclofenac adsorption property." *CARBOHYDRATE POLYMERS* 157, no. 157 (2017): 438-446.

- 155) Mahrooz Alvand, and Farzaneh Shemirani. "A Fe₃O₄@SiO₂@graphene quantum dot core-shell structured nanomaterial as a fluorescent probe and for magnetic removal of mercury(II) ion." *MICROCHIMICA ACTA* 184, no. 6 (2017): 1621–1629.
- 156) Mostafa Hosseinbaki, Farzaneh Shemirani, and Mohammad Javad Aghagoli. "Solid phase extraction of hexavalent chromium by Mannich base polymer wrapped flower-like layered double hydroxide." *INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY* 97, no. 3 (2017): 201-216.
- 157) Mahmoud Reza Neyestani, Farzaneh Shemirani, Shahla Mozaffari, and Mahrouz Alvand. "A magnetized graphene oxide modified with 2-mercaptobenzothiazole as a selective nanosorbent for magnetic solid phase extraction of gold(III), palladium(II) and silver(I)." *MICROCHIMICA ACTA* 184, no. 2017 (2017): 2871-2879.
- 158) Ali Asghar Rezaei, Mostafa Hossein Bagi, and Farzaneh Shemirani. "Fast sono assisted ferrofluid mediated silver super - Adsorption over magnesium ferrite-copper sulfide chalcogenide with the aid of multivariate optimization.." *ULTRASONICS SONOCHEMISTRY* 37, no. 37 (2017): 509-517.
- 159) Mohammad Javad Aghagoli, Mostafa Hosseinbaki, and Farzaneh Shemirani. "Application of dahlia-like molybdenum disulfide nanosheets for solid phase extraction of Co(II) in vegetable and water samples." *FOOD CHEMISTRY* 223, no. 223 (2017): 8-15.
- 160) Zahra Shakeri Kardar, Mostafa Hossein Beyki, and Farzaneh Shemirani. "Bifunctional aminosilane-functionalized Fe₃O₄ nanoparticles as efficient sorbent for preconcentration of cobalt ions from food and water samples." *RESEARCH ON CHEMICAL INTERMEDIATES* 43, no. 2017 (2017): 4079-4094.
- 161) Seyed Mahboobeh Yousefi, Farzaneh Shemirani, and Sohrabali Ghorbaniyan. "Deep eutectic solvent magnetic bucky gels in developing dispersive solid phase extraction: Application for ultra trace analysis of organochlorine pesticides by GC-micro ECD using a large-volume injection technique." *TALANTA* 168, no. 168 (2017): 73-81.
- 162) Rana Golshaie, Farzaneh Shemirani, and Malihe Davudabadi Farahani. "Synthesis of sulfur nanoparticles-loaded alumina as a low-cost sorbent for the preconcentration of nickel from real samples." *SEPARATION SCIENCE AND TECHNOLOGY* 52, no. 16 (2017): 2523-2531.
- 163) Mohammad Javad Aghagoli, and Farzaneh Shemirani. "Application of molybdenum disulfide nanosheets for adsorption of tetracycline in water samples." *Desalination and Water Treatment* 70, no. 70 (2017): 250-260.
- 164) Farzaneh Shemirani. "Application of Fe₃O₄/RGO Nanocomposite as a Sorbent of Pesticides." *CHROMATOGRAPHIA* 80, no. 9 (2017): 1423-1432.
- 165) Seyed Mahboobeh Yousefi, and Farzaneh Shemirani. "Carbon nanotube-based magnetic bucky gels in developing dispersive solid-phase extraction: application in rapid speciation analysis of Cr(VI) and Cr(III) in water samples." *INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY* 97, no. 11 (2017): 1065-1079.
- 166) Mehrnoosh Bayat, Farzaneh Shemirani, and Jahan Bakhsh Ghasemi. "Simultaneous determination of binary solution of triphenylmethane dyes in complex matrices onto magnetic amino-rich SWCNT using second-order calibration method." *ENVIRONMENTAL MONITORING AND ASSESSMENT* 189, no. 189 (2017): 594.
- 167) Samaneh Madannejad, Alimorad Rashidi, Sedigheh Sadeghassani, Farzaneh Shemirani, and Ebrahim Ghasemy. "Removal of 4-chlorophenol from water using different carbon nanostructures: A comparison study." *JOURNAL OF MOLECULAR LIQUIDS* 249, no. 249 (2017): 877-885.
- 168) Narmin Kanani, Mehrnoosh Bayat, Farzaneh Shemirani, Jahan Bakhsh Ghasemi, Zohreh Bahrami, and Ali Reza Badii. "Synthesis of magnetically modified mesoporous nanoparticles and their application in simultaneous determination of Pb(II), Cd(II) and Cu(II)." *RESEARCH ON CHEMICAL INTERMEDIATES* 1, no. 1 (2017): 1.
- 169) Mohammad Javad Aghagoli, Mostafa Hossein Beyki, and Farzaneh Shemirani. "Facile synthesis of Fe₃O₄/MoS₂nanohybrid for solid phase extraction of Ag(I) and Pb(II): kinetic, isotherm and thermodynamic studies." *INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY* 97, no. 14 (2017): 1328-1351.

170) Hassan Yadaei, Mostafa Hossein Beyki, Farzaneh Shemirani, and Siavash Nouroozi. "Ferrofluid mediated chitosan@mesoporous carbon nanohybrid for green adsorption/preconcentration of toxic Cd(II): Modeling, kinetic and isotherm study." REACTIVE & FUNCTIONAL POLYMERS 122, no. 122 (2018): 85-97.

171) Rouhollah Khani, Farzaneh Shemirani, and Behrooz Majidi. "Combination of dispersive liquid-liquid microextraction and flame atomic absorption spectrometry for preconcentration and determination of copper in water samples." Desalination 266, no. 1-3 (2018): 238-243.

172) Ehsan Yahyazadeh, and Farzaneh Shemirani. "Easily synthesized carbon dots for determination of mercury(II) in water samples." Heliyon 5, no. 5 (2019): e01596.

173) Parastoo Jamshidi, and Farzaneh Shemirani. "Magnetic Mn₂O₃ nanocomposite covered with N,N'-bis(salicylidene)ethylenediamine for highly selective preconcentration of cadmium(II) prior to its quantification by FAAS." MICROCHIMICA ACTA 1, no. 1 (2019): .

174) Reyhaneh Nayebi, Ghazaleh Daneshvartarigh, and Farzaneh Shemirani. "Porous ionic liquid polymer: A reusable adsorbent with broad operating pH range for speciation of nitrate and nitrite." Scientific Reports 9, no. 1 (2019): .

175) Zahra Shakeri Kardar, Farzaneh Shemirani, and Reza Zadmand. "Determination of iron(II) and iron(III) via static quenching of the fluorescence of tryptophan-protected copper nanoclusters." MICROCHIM ACTA 187, no. 1 (2020): .

مقالات چاپ شده در نشریات داخلی

1) Farzaneh Shemirani, Mahdi Zamani, and Mohammad Reza Jamali. "Solid phase extraction of ultra trace amounts of Ni by dimethylglyoxime DMG immobilized on column." IRANIAN JOURNAL OF CHEMICAL ENGINEERING 22, no. 2 (2003): 55-59.

2) Farzaneh Shemirani, Aazam Alsatat Mirroshandel, Masood Salavati Niasari, and Reyhaneh Rahnema Kozani. "Silica gel coated with Schiff base synthesis and application as an adsorbent for cadmium copper zinc and nickel determination after preconcentration by flame atomic absorption spectrometry." International Journal of Analytical Chemistry 59, no. 3 (2004): 228-233.

3) Farzaneh Shemirani, and Maryam Rajabi. "Use of the differential pulse cathodic adsorptive stripping voltammetric method for the simultaneous determination of trace amounts of cadmium and zinc." International Journal of Analytical Chemistry 1, no. 1 (2007): 43-52.

4) Maryam Ezoddin, Farzaneh Shemirani, and Mohammad Reza Jamali. "Fiber Optic Linear Array Detection Spectrophotometry in Combination with Dispersive Liquid-Liquid Microextraction for Preconcentration and Determination of Copper." International Journal of Analytical Chemistry 65, no. 2 (2010): 153-158.

5) Elaheh Kazemi, Nader Shokoufi, and Farzaneh Shemirani. "Indium determination and preconcentration using fiber optic linear array detection spectrometry combined with dispersive liquid-liquid microextraction." International Journal of Analytical Chemistry 66, no. 10 (2011): 924-929.

6) Sanaz Jafarvand, and Farzaneh Shemirani. "Supramolecular-based dispersive liquid-liquid microextraction: determination of cadmium in water and vegetable samples." ANALYTICAL METHODS 3, no. 7 (2011): 1552.

7) Sanaz Jafarvand, and Farzaneh Shemirani. "Supramolecular - based dispersive liquid-liquid microextraction in high salt concentrations." ANALYTICAL METHODS 4, no. 7 (2011): 1552-1559.

8) Behrooz Majidi, and Farzaneh Shemirani. "Separation and determination of trace level of gold from hydrochloric acid solutions using ultrasound assisted cold induced aggregation microextraction." ANALYTICAL METHODS 4, no. --- (2012): 1072-1077.

9) Meysam Vaezzadeh, Farzaneh Shemirani, and Behrooz Majidi. "DETERMINATION OF SILVER IN REAL SAMPLES USING HOMOGENEOUS LIQUID-LIQUID MICROEXTRACTION BASED ON IONIC LIQUID." International Journal of Analytical Chemistry 67, no. 1 (2012): -.

10) Maysam Gharehbaghi, and Farzaneh Shemirani. "Ionic liquid modified silica sorbent for simultaneous separation and preconcentration of heavy metals from water and tobacco samples prior to their determination by flame atomic absorption spectrometry." ANALYTICAL METHODS 4, no. --- (2012): 2879-2886.

11) Malihe Dehghan Mohammad Abadi, Mohammad Charmsaz, Mohammad Hossein Arbab Zavar, and Farzaneh Shemirani. "Supramolecular dispersive liquid-liquid microextraction based solidification of floating organic drops for speciation and spectrophotometric determination of chromium in real samples." ANALYTICAL METHODS 5, no. 12 (2013): 2971-2977.

- 12) Mostafa Hossein Baki, and Farzaneh Shemirani. "Surfactant modified walnut sawdust as an alternative green support for efficient preconcentration of nickel ions from different real samples." *ANALYTICAL METHODS* 5, no. 5 (2013): 3255.
- 13) Meisam Isapoor, Farzaneh Shemirani, and Behrooz Majidi. "The ultratrace detection of crystal violet in fish and environmental water samples using cold-induced aggregation microextraction based on ionic liquid (IL-CIAME)." *ANALYTICAL METHODS* 5, no. 20 (2013): 5731-5736.
- 14) Meisam Isapoor, Farzaneh Shemirani, and Behrooz Majidi. "The ultratrace detection of crystal violet in fish and environmental water samples using cold-induced aggregation microextraction based on ionic liquid (IL-CIAME)." *ANALYTICAL METHODS* 5, no. 20 (2013): 5731-5736.
- 15) Mostafa Hossein Baki, Farzaneh Shemirani, Rouhollah Khani, and Mehrnoosh Bayat. "Applicability of diclofenac–montmorillonite as a selective sorbent for adsorption of palladium(ii); kinetic and thermodynamic studies." *ANALYTICAL METHODS* 6, no. 6 (2014): 1875.
- 16) Meisam Garebaghi, Malihe Davoodabadi Farahani, and Farzaneh Shemirani. "Dispersive magnetic solid phase extraction based on an ionic liquid ferrofluid." *ANALYTICAL METHODS* 1, no. 1 (2014): 1.
- 17) Mehrnoosh Bayat, Farzaneh Shemirani, and Mostafa Hossein Baki. "Utilization of facile synthesized Fe₃O₄ nanoparticles as a selective support for preconcentration of lead ions from food and environmental samples." *ANALYTICAL METHODS* 6, no. 14 (2014): 5345-5352.
- 18) Meisam Garebaghi, Malihe Davudabadi Farahani, and Farzaneh Shemirani. "Dispersive magnetic solid phase extraction based on ionic liquid ferrofluid." *ANALYTICAL METHODS* 6, no. 6 (2014): 9258-9266.
- 19) Armin Serji, Farzaneh Shemirani, Mahrooz Alvand, and Alireza Tajbakhshian. "Graphene oxide magnetic nanocomposites for the preconcentration of trace amounts of malachite green from fish and water samples prior to determination by fiber optic-linear array detection spectrophotometry." *ANALYTICAL METHODS* 6, no. 6 (2014): 7744.
- 20) Elnaz Aliyari, Mahrooz Alvand, and Farzaneh Shemirani. "Simultaneous separation and preconcentration of lead and cadmium from water and vegetable samples using a diethylenetriamine-modified magnetic graphene oxide nanocomposite." *ANALYTICAL METHODS* 7, no. 7 (2015): 7582-7589.
- 21) Nafiseh Khoddami, and Farzaneh Shemirani. "Preparation of carboxymethyl- α -cyclodextrin polymer grafted onto nano TiO₂ as a novel solid phase extraction sorbent based on a host–guest mechanism ." *ANALYTICAL METHODS* 7, no. 12 (2015): 5338-5344.
- 22) Ehsan Mohammadifar, Farzaneh Shemirani, and Behrooz Majidi. "A new sorbent of modified MWCNT for solid phase extraction and determination of trace amount of palladium in environmental samples." *International Journal of Analytical Chemistry* 70, no. 2 (2015): 136-142.
- 23) Golshaei Rana, Farzaneh Shemirani, and Malihe Davudabadi Farahani. "Combination of solid phase extraction based on nano alumina and liquid-liquid extraction for selective determination of palladium in food samples." *International Journal of Analytical Chemistry* 70, no. 3 (2015): 310-315.
- 24) Nafiseh Khoddami, and Farzaneh Shemirani. "Preparation of carboxymethyl- α -cyclodextrin polymer grafted onto nano TiO₂ as a novel solid phase extraction sorbent based on a host-guest mechanism." *ANALYTICAL METHODS* 12, no. 7 (2015): 5338-5344.
- 25) Elnaz Aliyari, Mahrooz Alvand, and Farzaneh Shemirani. "Document Simultaneous separation and preconcentration of lead and cadmium from water and vegetable samples using a diethylenetriamine-modified magnetic graphene oxide nanocomposite." *ANALYTICAL METHODS* 7, no. 18 (2015): 7582-7589.
- 26) Nafiseh Khoddami, and Farzaneh Shemirani. "Preparation of carboxymethyl- α -cyclodextrin polymer grafted onto nano TiO₂ as a novel solid phase extraction sorbent based on a host–guest mechanism." *ANALYTICAL METHODS* 7, no. 7 (2015): 50338-5334.
- 27) Elnaz Aliyari, Mahrouz Alvand, and Farzaneh Shemirani. "Simultaneous separation and preconcentration of lead and cadmium from water and vegetable samples using diethylenetriamine-modified magnetic graphene oxide nanocomposite." *ANALYTICAL METHODS* 7, no. 18 (2015): 7582-7589.
- 28) Mahsa Shirekhodaie, Mostafa Hosseinbaki, and Farzaneh Shemirani. "Polyol route synthesis of a Fe₃O₄@CuS nanohybrid for fast preconcentration of gold ions." *ANALYTICAL METHODS* 8, no. 8 (2016): 1351-1358.

29) Mostafa Hosseinbaki, Mahsa Shirekhodaie, and Farzaneh Shemirani. "Ployol route synthesis of... gold ions." ANALYTICAL METHODS 8, no. 8 (2016): 1351-1358.

30) Majid Baghdadi, Farzaneh Shemirani, and Hamid Reza Lotfi Zadeh Zhad. "Determination of cobalt in high-salinity reverse osmosis concentrates using flame atomic absorption spectrometry after cold-induced aggregation microextraction." ANALYTICAL METHODS 8, no. 8 (2016): 1908-1913.

31) Samaneh Madannejad, Farzaneh Shemirani, and Negin Fasih Ravandi. "Facile synthesis of magnetic MWCNT functionalised 8-hydroxyquinoline: characterisation and application for selective enrichment of cadmium ions in food samples." International Journal of Analytical Chemistry 96, no. 6 (2016): 595-607.

32) Mostafa Hosseinbaki, and Farzaneh Shemirani. "Magnetic ZnFe₂O₄@ polyhydroxybenzoic acid nanostructure for efficient B. subtilis capturing." Nanomedicine Research Journal 2, no. 3 (2017): 165-170.

33) Mohammad Khosravikia, Maryam Nedaei, and Farzaneh Shemirani. "Sustainable hydrophobic deep eutectic solvent based matrix-solid phase dispersion using synthesized activated carbon for extraction of carbaryl in cereal samples." Journal of Industrial & Engineering Chemistry 1, no. 1 (2019): .

34) حمید زارعی، امیر حسین محوی، سیمین ناصری، رامین نبی زاده نودهی و فرزانه شمیرانی. "مدل سازی جذب فلوراید و کاربرد طراحی Box Behenken و روش شناسی سطح پاسخ در حذف آرسنیک(V) در محلول های آبی." فصلنامه سلامت و محیط زیست 8، 3 (1397): 309-322.

همایش های بین المللی

1) Farzaneh Shemirani. "A Novel Fe Ion Selective Membrane Electrode Based on a New Synthesized Azo Compound." 13Iranian seminar of analytical chemistry, Mashhad.

2) Farzaneh Shemirani, and . "Use of the I3 CPC Micellar System for the determination of trace amounts of Tungsten(VI)." The 2nd International & 12th National Congress Chemistry & Chemical Engineering of Iran, Kerman.

3) Farzaneh Shemirani, , , and . "Determination of Mercury by Cold Vapour Atomic Absorption Sepctrometry after Preconcentration with dithizon Immobilized on Surfactant Coated Alumina." The 2nd International & 12th National Congress Chemistry & Chemical Engineering of Iran, Kerman.

4) Farzaneh Shemirani, and . "Use of the Triiodide - Hexadecylpyridinium Chloride Micellar System for the Kinetic Determination of Tungsten." The 2nd International & 12th National Congress Chemistry & Chemical Engineering of Iran, Kerman.

5) Farzaneh Shemirani, and . "Determination of Chromium (VI) and chromiu (III) by Electrothermal Atomic Absorption Spectrometry using a Cellulose Sorbert." 13th Iranian Chemistry & Chemical Engineering Congress, Tehran.

6) Farzaneh Shemirani, and . "Determination of trace amount of eadmium using 1-(2- Pyridylazo (2- naphthol (PAN) immobilized on SDS coated alumina." 10th Iranian Seminar of Analytical Chemistry, Tehran.

7) Farzaneh Shemirani, and . "Atomic absorptiion spectrometric delermination of trace nickel after preconcentration with 1(2- pyridylazo) -2 naphthol (PAN) immobilized on surfactant - coated alumina." 10th Iranian Seminar of Analytical Chemistry, Tehran.

8) , , , and Farzaneh Shemirani. "Evallation of Plasma Buffer Aapctty in Chro;nic Renal Failure(CRT)." 15Iranian Congress of Physiology and Pharmacology, Shiraz.

9) Farzaneh Shemirani, , , , and . "Solid Phase extraction and Determination of ultra trace amounts of Cu(II) using schiff' Base A immobilized on SDS Coated alumina." 11Iranian Seminar of Analytical Chemistry,.

10) Farzaneh Shemirani, , and . "Preconcentration and Determination of trace Chromium using -(2- pyridylazo-2 -Naphto (PAN) Immobiliz e d o n Sur fa ctant - Coated Alu mina." Frist Congress of Chemistry Eslamic Azad University, Tehran.

11) Farzaneh Shemirani, , , and . "Silica - gel coated with schiff,s base: Synthesis and application as adsorbent for cadmium (II) , copper (II) and nickel (II) determination after preconcentration by flame atomic absorption spectrometry." 12Iranian Seminar of Analytical Chemistry, Mazandaran.

12) Farzaneh Shemirani, , , , Mohammad Reza Jamali, and . "Atomic absorption spectrometric determination of ultra trace amounts of manganese and nickel after preconcentration from natural waters by schiff,s base coated silica -gel column." 12Iranian Seminar of Analytical Chemistry, Mazandaran.

- 13) Farzaneh Shemirani, Mohammad Reza Jamali, and . "Transport study of copper through a bulk liquid membrane using Schiff's base as carrier." 12 Iranian Seminar of Analytical Chemistry, Mazandaran.
- 14) Farzaneh Shemirani, , , , and . "Preconcentration and speciation of chromium in waters by flame atomic absorption spectrometry after cloud point extraction." 12th Iranian Seminar of Analytical Chemistry, Mazandaran.
- 15) Farzaneh Shemirani, , , , and . "Preconcentration and speciation of chromium in waters by flame atomic absorption spectrometry after cloud point extraction." 12 Iranian Seminar of Analytical Chemistry, Mazandaran.
- 16) Farzaneh Shemirani, , , , Mohammad Reza Jamali, and . "Determination of trace metal ions by FAAS in natural waters and standard materials after preconcentration on minicolumn modified with Schiff's base complexes." 12 Iranian Seminar of Analytical Chemistry, Mazandaran.
- 17) Farzaneh Shemirani, , and Mohammad Reza Jamali. "Determination of cadmium, copper and zinc in water samples by flame atomic absorption spectrometry after cloud point extraction." 12 Iranian Seminar of Analytical Chemistry, Mazandaran.
- 18) Farzaneh Shemirani, , , , and . "Atomic absorption spectrometric determination of trace amounts of cobalt and nickel after preconcentration using solid phase extraction by column method." 12 Iranian Seminar of Analytical Chemistry, Mazandaran.
- 19) Farzaneh Shemirani, Naser Ghaemi, and . "Determination of Pb (II) By Flame Atomic Absorption Spectrometry After Preconcentration By Saccharomyces Cerevisiae Immobilized on Calcium Alginate." 4th European Meeting on Environmental Chemistry,.
- 20) Farzaneh Shemirani, Majid Baghdadi, and . "Cloud Point Extraction and Electrothermal atomic absorption spectrometric determination of ultra trace amount of arsenic in water and biological samples." 14th Iranian Chemistry & Chemical Engineering Congress,.
- 21) Farzaneh Shemirani, , and . "cloud point extraction and preconcentration of trace amounts of lead and copper prior to flame atomic absorption spectrometric determination in water samples." 13 Iran seminar of analytical chemistry, Mashhad.
- 22) Farzaneh Shemirani, and . "highly selective cloud point extraction and preconcentration of trace amounts of silver in water samples prior to flame atomic absorption spectrometric determination." 13 Iran seminar of analytical chemistry, Mashhad.
- 23) , Farzaneh Shemirani, and . "solid phase extraction and determination of ultra trace amounts of lead in water samples using octadecyl silica membrane disks modified by Bis 2 Methoxy benzaldehyde ethylene diimine and flame atomic absorption spectrometry." 13 Iranian seminar of analytical chemistry, Mashhad.
- 24) Farzaneh Shemirani, , , , and . "the application of cloud point extraction for the preconcentration and speciation of chromium by flame atomic absorption spectrometry." 13 Iran seminar of analytical chemistry, Mashhad.
- 25) Farzaneh Shemirani, and . "cloud point preconcentration and flame atomic absorption spectrometric determination of Cu and Ni in water samples and standard alloys." 13 Iranian seminar of analytical chemistry, Mashhad.
- 26) , Farzaneh Shemirani, and . "preconcentration of lead by immobilization biomass and determination by FAAs." 13 Iran seminar of analytical chemistry, Mashhad.
- 27) Farzaneh Shemirani, , and . "Fiber optic -linear detection spectrophotometry Determination of Rhodium with 1- (2- pyridylazo) -2 naphthol." 15 Iranian seminar of analytical chemistry, Shiraz.
- 28) Farzaneh Shemirani, , and . "Laser Induced - thermal lens spectrometry after Cloud Point Extraction for the determination of trace amounts of palladium." Euroanalysis XIV Antwerp 2007,.
- 29) Farzaneh Shemirani, , , , and Mohammad Reza Jamali. "simultaneous determination and preconcentration of Cd and Pb in real samples with modifier nano alumina." 2 International Congress On Nanoscience nanotechnology, Tabriz.
- 30) , Farzaneh Shemirani, and . "Ionic liquid as designer solvents in treatment radioactive solutions." The 1 International Conference on Nuclear Power Plants Environment and Sustainable Development, Tabriz.
- 31) , Farzaneh Shemirani, and . "optimization of dispersive liquid liquid microextraction based on ionic liquid for preconcentration and determination of copper in water samples using response surface methodology and experimental design." 2 Iranian biennial seminar of chemometrics, Urmia.

- 32) , , and Farzaneh Shemirani. "speciation and preconcentration of iron by cloud point extraction combined with fiber optic linear array detection spectrophotometry." TraceSpec 2009, Mains.
- 33) Farzaneh Shemirani, , and . "optimization of dispersive liquid microextraction based on ionic liquid for preconcentration and determination and determination of copper in water samples using response surface methodology and experiment design." Iranian biennial seminar of chemometrics, Urmia.
- 34) Farzaneh Shemirani, and . "selective and sensitive spectrophotometric determination of palladium in brines and salt products by modified cold-induced aggregation microextraction." 7th Iranian Seminar of Analytical Chemistry, Hamedan.
- 35) , and Farzaneh Shemirani. "modified cold induced aggregation microextraction and fiber optic linear array detection spectrophotometric determination of palladium in saline solution." 6th Iranian Seminar of Analytical Chemistry, Hamedan.
- 36) Farzaneh Shemirani, , and . "Fiber optic linear array detection spectrophotometer in combination with dispersive liquid liquid microextraction based on ionic liquid for preconcentration and determination of silver in X ray photographic films and photographic waste." 6th Iranian Seminar of Analytical Chemistry, Hamedan.
- 37) , , and Farzaneh Shemirani. "speciation of iron by cloud point extraction combined with fiber optic linear array detection spectrophotometry." 6th Iranian Seminar of Analytical Chemistry, Hamedan.
- 38) , , and Farzaneh Shemirani. "indium determination and preconcentration using fiber optic linear array detection spectrometry combined with dispersive liquid liquid micro extraction." 6th Iranian Seminar of Analytical Chemistry, Hamedan.
- 39) Farzaneh Shemirani, , and Mohammad Reza Jamali. "speciation analysis of antimony(III) and antimony (V) in water samples by dispersive liquid-liquid microextraction (DLLME) combined with electrothermal atomic absorption spectrometry." EUCHEM 2010 Conference on Molten Salts and Ionic Liquids, Bamberg.
- 40) , and Farzaneh Shemirani. "Combination of ionic liquid based dispersive liquid liquid microextraction and flame atomic absorption spectrometry for preconcentration and determination of nickel and manganese in water and food samples." 17th Iranian Seminar of Analytical Chemistry, Kashan.
- 41) , Farzaneh Shemirani, and . "use of fractional factorial design for optimization of dispersive liquid liquid microextraction based on ionic liquid with flame atomic absorption spectrometry using microsample introduction for preconcentration and determination of nickel and manganese in water and food samples." Asia Pacific Conference on Ionic Liquid and Green Processes, Dalian.
- 42) , Farzaneh Shemirani, and . "preconcentration and biomonitoring of lead based on ionic liquid with flame atomic absorption spectrometry using microsample introduction evaluation via response surface methodology." Asian Pacific Conference on Ionic Liquids and Green Processes, Dalian.
- 43) Mohsen Taziki, Farzaneh Shemirani, and Behrooz Majidi. "robust ionic liquid-based dispersive liquid liquid microextraction against high concentration of salt for preconcentration and determination of Cr(VI) in various samples and FAAS." 15 Iranian Chemistry Congress.
- 44) Behrooz Majidi, and Farzaneh Shemirani. "salt assisted liquid liquid microextraction with water miscible ionic liquid for the determination of chromium species in saline samples by flame absorption spectrometry." 15 Iranian Chemistry Congress, Hamedan.
- 45) Farzaneh Shemirani. "coupling of microextraction methods with spectroscopy instruments: developing and innovation." 15 Iranian Chemistry Congress, Hamedan.
- 46) , Farzaneh Shemirani, and . "simultaneous spectrophotometric determination of trace amount of palladium and mercury by chemometrics methods in aqueous media after preconcentration with alumina nano particles." 15 Iranian Chemical Congress, Hamedan.
- 47) Malihe Davudabadi Farahani, and Farzaneh Shemirani. "SUPPORTED HYDROPHOBIC IONIC LIQUID ON MAGNETIC NANOPARTICLES AS A NEW SORBENT FOR SEPARATION AND PRECONCENTRATION OF LEAD AND CADMIUM IN MILK AND WATER SAMPLES." International Congress on Nanoscience Nanotechnology ICNN2012. ICNN 2012, Kashan.
- 48) Malihe Davudabadi Farahani, and Farzaneh Shemirani. "SUPPORTED HYDROPHOBIC IONIC LIQUID ON MAGNETIC NANOPARTICLES AS A NEW SORBENT FOR SEPARATION AND PRECONCENTRATION OF LEAD AND CADMIUM IN MILK AND WATER SAMPLES." 14th International Symposium on Advances Extraction Technologies September 24-26 2012 School of Science Messina Italy, Messina.

49) Gazaleh Daneshvar Tarigh, and Farzaneh Shemirani. "Simultaneous preconcentration and derivatization of thiamine by ultrasound-assisted dispersive magnetic solid phase extraction spectrofluorimetry in pharmaceutical, biological and foodstuff samples." The 38th international symposium in environmental analytical chemistry,.

50) Gazaleh Daneshvar Tarigh, and Farzaneh Shemirani. "simultaneous preconcentration and determination of thiamin by ultrasound assisted dispersive magnetic solid phase extraction spectrofluorimetry by pharmaceutical biological foodstuff samples." 38th international symposium on environmental analytical chemistry,.

51) Farzaneh Shemirani, and Negin Fasih Ravandi. "dispersive solid phase extraction of lead in environmental by ionic liquid based magnetic nano particle fluid." The 2014 World Congress on Advances in Civil, Environmental, and Materials Research,.

52) Farzaneh Shemirani. "Magnetic solid-phase extraction of 38 pesticides using coated magnetic nanoparticles as adsorbent prior to GC/MS." Magnetic solid-phase extraction of 38 pesticides using coated magnetic nanoparticles as adsorbent prior to GC/MS, Kish.

همایش‌های داخلی

1) Farzaneh Shemirani, Mohammad Reza Jamali, Masoud Salavati Niasari, and Shiva Dehgan Abkenar. "solid phase extraction of ultra trace amounts of Ni(II) using Schiff base immobilized on SDS coated alumina." The third congress of chemistry of Islamic Azad University,.

2) Farzaneh Shemirani, Azam Mirroshandel, , and Reyhaneh Rahnama Kozani. "silica gel coated with Schiff base synthesis and application as adsorbent for cadmium(II) and copper(II)zinc (II)and nickel(II) determination after preconcentration by flame atomic absorption spectroscopy." 12 Iranian seminar of analytical chemistry,.

3) Farzaneh Shemirani, Reyhaneh Rahnama Kozani, Masoud Salavati Niasari, Mohammad Reza Jamali, and Azam Mirroshandel. "Atomic absorption spectrometric determination of ultra trace amounts of manganese and nickel after preconcentration on mini column modified with Schiff base complexed silica gel columny Schiff base from natural waters b." 12 Iranian seminar of analytical chemistry,.

4) Farzaneh Shemirani, Mohammad Reza Jamali, and . "transport study of copper through a bulk liquid membrane using Schiff base as carrier." 12 Iranian seminar of analytical chemistry,.

5) Farzaneh Shemirani, Reyhaneh Rahnama Kozani, , Shiva Dehgan Abkenar, Mohammad Reza Jamali, and Azam Mirroshandel. " determination of trace metal ions by FAAS in natural waters and materials after preconcentration on mini column modified with Schiff base complexes." 12 Iranian seminar of analytical chemistry,.

6) Farzaneh Shemirani, Majid Baghdadi, , and . "determination of ultratrace amounts of bismuth in biological and water samples by electrothermal atomic absorption spectrometry ET-AAS after cloud point extraction." 13 Iranian seminar of analytical chemistry, Mashhad.

7) Shiva Dehgan Abkenar, , Farzaneh Shemirani, and . "solid phase microextraction gas chromatography mass spectrometry a very rapid method for identification of volatile organic compounds emitted by Carum copticum." first seminar of medicinal and natural products chemistry,.

8) Seyed Reza Yousefi, Farzaneh Shemirani, Seyed Javad Ahmadi, Mohammad Reza Gamali, and Masoud Salavati Niasari. "simultaneous extraction and preconcentration of uranium and thorium in water samples by new modified mesoporous silica prior to inductively coupled plasma optical emission spectrometry determination." 16 Iranian seminar of analytical chemistry, Hamedan.

9) Amir Rahmani, Farzaneh Shemirani, and Rohollah Khani. "In-Situ solvent formation microextraction based ionic-liquid for determination and preconcentration of antimony in water and biological samples evaluation via response surface method." 15 Iranian chemical conference,.

10) جمشید منظوری و فرزانه شمیرانی . "اندازه گیری سریع کروم (III) و کروم (VI) بوسیله استخراج واسپکترومتری نشری اتمی ICP." اولین کنگره شیمی و مهندسی شیمی ایران، تبریز.

11) محمد حسین پورنقی آذر و فرزانه شمیرانی . "مطالعه رفتار پلارو گرافی کریزوفانول امودین و رین در کلروفورم کاربرد در اندازه گیری ترکیبات هیدروکسی آنتراکینون در گیاهان دارویی." سومین سمینار شیمی تجزیه ایران، کرمان.

12) جمشید منظوری، محمد حسین سرو الدین و فرزانه شمیرانی . "گونه شناسی کروم بوسیله ستون میکرو آلومینا پوشیده شده با سورفاکتانت واسپکترومتری جذب اتمی الکتروترمال." نهمین کنگره شیمی و مهندسی شیمی ایران، تبریز.

- (13) فرزانه شمیرانی و علیرضا اصغری. "استفاده از سیستم مسیل تری پدید هگزا دسیل پیریدینوم کلراید جهت اندازه گیری مقادیر بسیار کم تنگستن (VI)". دومین کنگره بین المللی و دوازدهمین کنگره شیمی و مهندسی شیمی ایران، کرمان.
- (14) فرزانه شمیرانی. "اندازه گیری حساس سینتیکی اسپکتروفتومتری آهن (II) بوسیله کاتالیز واکنش پیروگالول فرمز پراکسی دی سولفات". هشتمین سمینار شیمی تجزیه ایران، اهواز.
- (15) فرزانه شمیرانی. "تعیین غیرمستقیم دی‌زیوتیر امید توسط طیف سنجی جذب اتمی شعله ای". هشتمین سمینار شیمی تجزیه ایران، اهواز.
- (16) فرزانه شمیرانی و مریم رحبی. "اندازه گیری کروم (VI) و کروم (III) بوسیله اسپکترومتری جذب اتمی الکتروترمال با استفاده از جاذب سلولز". سیزدهمین کنگره شیمی مهندسی شیمی ایران، تهران.
- (17) فرزانه شمیرانی. "اندازه گیری سینتیکی - کاتالیتیکی مقادیر بسیار کم منگنز (II) به روش اسپکتروفتومتری براساس واکنش اکسید اسیون تیل اورانژیا پیریدات". نهمین سمینار شیمی تجزیه ایران، تبریز.
- (18) فرزانه شمیرانی. "اندازه گیری مقادیر کادمیم با استفاده از 1- (پیریدیل آزو) 2- نفتل (PAN) نسبت شده روی آلومینای پوشیده شده با سوزفاکتانت SDS". نخستین کنگره شیمی دانشگاه آزاد اسلامی، تهران.
- (19) فرزانه شمیرانی. "اندازه گیری جذب اتمی مقادیر آثار نیکل بعد از تغلیظ با PAN ثبت شده روی آلومینای پوشیده شده با سوزفاکتانت". دهمین سمینار شیمی تجزیه ایران، تهران.
- (20) فرزانه شمیرانی و بی بی طاهره سادات اخوی. "اندازه گیری مقادیر کم کادمیم با استفاده از 1- (2- پیریدیل آزو) 2- (PAN) تثبیت شده روی آلومینای پوشیده با سوزفاکتانت SDS". دهمین سمینار شیمی تجزیه ایران، تهران.
- (21) هادی مازوچی، شهریار غریب زاده، محسن پرویز و فرزانه شمیرانی. "بررسی ظرفیت بافری پلاسما در بیماران مبتلا به نارسایی مزمن کلیه (CRF)". چهاردهمین کنگره بین المللی پزشکی جغرافیایی و پانزدهمین کنگره فیزیولوژی و فارماکولوژی ایران، شیراز.
- (22) فرزانه شمیرانی، میترا پیروی سرشکه و شیوا دهقان ابکنار. "اندازه گیری غیر مستقیم آنتازولین به روش جذب اتمی". یازدهمین سمینار شیمی تجزیه ایران، یزد.
- (23) فرزانه شمیرانی، ملیحه داوود ابادی و محمدرضا جمالی. "استفاده از سیستم میسل تری پدید - هگزادسیل پیریدینوم کلراید جهت اندازه گیری مقادیر بسیار کم سریم (IV)". یازدهمین سمینار شیمی تجزیه ایران، یزد.
- (24) فرزانه شمیرانی، محمدرضا جمالی و شیوا دهقان ابکنار. "اندازه گیری سرب به وسیله FAAS در نمونه های آب دریا ونمونه های بیولوژیکی پس از پیش تغلیظ با PAN نشانده شده بر روی آلومینای پوشیده شده با SDS". یازدهمین سمینار شیمی تجزیه ایران، یزد.
- (25) فرزانه شمیرانی، شیوا دهقان ابکنار و محمدرضا جمالی. "پیش تغلیظ مقادیر کم اورانیوم از آبهای طبیعی توسط استخراج با فاز جامد و اندازه گیری اسپکتروفتومتری آن توسط آرسنازو (III)". یازدهمین سمینار شیمی تجزیه ایران، یزد.
- (26) فرزانه شمیرانی، مهدی زمانی و محمدرضا جمالی. "پیش تغلیظ و اندازه گیری مقادیر بسیار کم نیکل در نمونه های آبی توسط ستون آلومینای اصلاح شده با SDS و دی متیل گلی اکسیم". یازدهمین سمینار شیمی تجزیه ایران، یزد.
- (27) فرزانه شمیرانی، محمدرضا جمالی، مسعود صلواتی نیاسری، علیرضا حجاریان، کیانا شاهوردی و سولماز کرم دوست. "اندازه گیری جذب اتمی نیل پس از پیش تغلیظ توسط واکنشگر شیف باز تثبیت شده بر روی آلومینای پوشیده شده با SDS". یازدهمین سمینار شیمی تجزیه ایران، یزد.
- (28) فرزانه شمیرانی، مهدی زمانی و محمدرضا جمالی. "استفاده از واکنشگر 1- (پیریدیل آزو) 2- نفتل (PAN) تثبیت شده بر روی آلومینای اصلاح شده با SDS به منظور پیش تغلیظ و اندازه گیری مقادیر کم کروم". یازدهمین سمینار شیمی تجزیه ایران، یزد.

راهنمایی پایان نامه

(1) سنتز و بکار گیری بسترهای مغناطیسی به منظور جداسازی، پیش تغلیظ و اندازه گیری آلاینده های زیست محیطی از نمونه های حقیقی، مژگان جعفری پیروز، دانشگاه تهران، 1393/11/14

(2) بهبود الکتروآزیمی با گرافن عامل دار شده برای بیوسنسورهای الکتروشیمیایی، علی اکبری صحت، دانشگاه تهران، 1394/03/03

جوایز و افتخارات (در زمینه های مختلف مانند: طرح، مقاله، ...)

(1) معاون آموزشی برتر، ملی، جشنواره پژوهش دانشگاه، 1388/02/15

(2) مولف برتر بین الملل، ملی، جشنواره پژوهش دانشگاه، 1394/09/09

(3) یک درصد برتر دانشمندان پر استناد جهان، ملی، جشنواره بین الملل دانشگاه، 1395/03/05

(4) ملی، جشنواره پژوهش دانشگاه

فعالیت های اجرایی

1) مدیرکل نظارت و برنامه ریزی آموزشی دانشگاه، 1393/05/04، 1396/11/14، ایران، تهران

2) مدیرکل غیر دولتی، 1396/11/27، ایران، تهران

3) عضو شورای سیاستگذاری انتشارات دانشگاه تهران، 1397/11/27، 1400/11/27، ایران، تهران

عضویت در مجامع ملی و بین المللی

1) انجمن شیمی و مهندسی ایران ، عضو، ملی، 1364/10/11، 1111/10/11