Academic CV



Personal Information

Ahmad Bagheri (*Top two percent of scientists in the world 2023*)
Born: June 24, 1977, Amol, Iran
Associate Professor of Physical Chemistry,
Faculty of Chemistry, Semnan University, P.O. Box 35131-19111,
Semnan, Iran
Email: abagheri@semnan.ac.ir & bagheri.alm@gmail.com

Education

Ph.D. in Physical Chemistry, Bu-Ali Sina University, Hamedan, Iran, 2006-2011.
M.Sc. in Physical Chemistry, Bu-Ali Sina University, Hamedan, Iran, 2000-2003.
B.Sc. in Applied Chemistry, University of Guilan, Rasht, Iran, 1996-2000.

Academic Experience

Semnan University as an Assistant Professor of Physical Chemistry, Semnan, Iran, from Feb. 2012 to Oct. 2017.

Semnan University as an Associate Professor of Physical Chemistry, Semnan, Iran, from Oct. 2017 to now.

Research Interests:

Physical chemistry, Surface chemistry, Biosurfactant-drug properties, Surfactant-IL properties, Synergism or antagonism between surface active compounds, membrane, Ion selective electrode (ISE), Experimental and theoretical aspects of surface tension (prediction and correlation), Adsorption, Host-guest inclusion complex

Supervised Thesis:

i) Number of graduate M.Sc: 25
ii) Number of graduate Ph.D: 10

Taught Courses (2012-up to now)

Undergraduate:
General Chemistry I, Lab. General Chemistry, Physical Chemistry I, II & III and their Labs, Surface chemistry and solid state

Postgraduate:
Advanced Physical Chemistry, Chemical Kinetics, Statistical Thermodynamics (I & II), Specific Topics in Physical Chemistry, Surface Chemistry, Specific Topics in Applied Chemistry, Surfactants

Professional Experiences:

Vice Chancellor for Research and Technology in Faculty of Chemistry 8/2019-8/2020

Head of Chemistry Department, Semnan University, Semnan	4/2017-8/2019
Head of HSE Council in Semnan University, Semnan	1/2017-1/2019
Senior Researcher, Water Research complex, Tehran & Arak, Iran	6/2003-3/2006

Publication:

Articles in Journals (ISI)

62- **A. Bagheri**, Investigation of Synergism of Nonionic Surfactant Mixture with Similar Structures and Its Relationship with lyophobicity Using the Modified Extended Langmuir Model, *Langmuir* (**2026**) Accepted. (*American Chemical Society,* **ACS**).

61- H. Mortazavi, A. Tarahhomi, **A. Bagheri**, Phosphoric Triamide-Based Silica Magnetic Nanocomposites as Efficient Adsorbents for Removal of Lead and Copper from Aqueous Solutions, *ACS Applied Nano Materials* 9 (**2026**) 9550−9568. (*American Chemical Society,* **ACS**)

60- M. Maddah, H Fallah-Totkar, **A Bagheri**, Mechanism of Antidepressant Drug Loading in Surface-Active Ionic Liquid: Insights from Micelle Morphology and Energy Analysis Using Coarse-Grained MD Simulations, *Journal Physical Chemistry B*, 130 (**2026**) 1223-1236. (*American Chemical Society,* **ACS**)

59- H. Mortazavi, A. Tarahhomi, **A. Bagheri**, A novel inorganic thiophosphoric triamide-functionalized silica/magnetic nanocomposite as a high-efficiency adsorbent for removal of Hg(II), Pb(II), and Cu(II) from aqueous solutions, *Inorganic Chemistry Commnication*, 190 (**2026**) 116882.

58- M. Baninaam, **A. Bagheri**, A. Khaksar Manshad, G. Zargar, The investigation of synergism of bio/-synthetic surfactants mixture and their modification by nanoparticles: Application for Enhanced Oil Recovery (EOR), *Journal of Molecular Liquids* 441 (**2026**) 129039.

57- F. Taherian, M. Fazli, **A. Bagheri**, Optimizing mixed micelle formation of amphiphilic drug and cationic surfactant: role of molar ratios in enhancing structural stability and drug encapsulation, *Journal of Molecular Liquids*, 44 (**2026**) 129188.

56- S. H. Khabbaz, **A. Bagheri**, M. Mousavi-Kamazani, One-pot hydrothermal synthesis and characterization of magnetic Mn–Fe–V oxide/modified zeolite nanocomposite with enhanced visible-light photocatalytic properties, *Journal of Physics and Chemistry of Solids*, 208 (**2026**) 113168.

55- N. Bamyani, **A. Bagheri**, Interactions between cationic surfactant and poly ethylene glycol: Effect of the polymer concentration and alkyl chain length of surfactant, *Journal of Molecular Liquids*, 429 (**2025**) 127598**.**

54- S. H. Khabbaz, **A. Bagheri**, M. Mousavi-Kamazani, Synthesis, characterization, and application of MnFe2O4/FeVO4/modified zeolite nanocomposite as an effective photocatalyst for methylene blue degradation and benzothiophene desulfurization, *Heliyon*, 11 (**2025**) e41294.

53- M. Malekzadeh, A. A. Rafati, **A. Bagheri**, Sensitive determination of valganciclovir via Ni–Co multilayer nanowire-modified carbon paste electrode, *RSC Adv.*, 15 (**2025**) 5837-5849.

52- **A. Bagheri**, S. H. Khabbaz, A. A. Rafati, Comparison of the natural and surfactant-modified zeolites in the adsorption efficiency of sunset yellow food dye from aqueous solutions, *Scientific Reports*, 115 (**2024**) 22511.

51- M. Fazli, M. R. Boorboor, Z. Mahdavifar, **A. Bagheri**, Evaluation of β- and γ-Cyclodextrins as Promising Bisoprolol Drug Carriers: Docking, Molecular Dynamics and MM-PBSA1 Free-Energy Calculations, *Chemistry Select*, 9 (**2024**) e202400923.

50- M. Nosrati, A. A. Rafati, **A. Bagheri**, P. Assari, First report for the voltammetric determination of Lamivudine anti-HIV drug in tablet dosage forms by glassy carbon electrode modified with polyaniline nanowires, *Applied Physics A*, 130 (**2024**) 701.

49- A. Rasouli, **A. Bagheri**, F. Nabizadeh-Chianeh, Modification of Nanofiltration Membranes by Cationic Surfactant as a Promising Strategy for Treatment of Pharmaceutical Wastewater, *International Journal of Environmental Research*, 18 (**2024**) 106.

48- F. Ebrahimi, A. A. Rafati**, A. Bagheri**, Determination of levodopa using a glassy carbon electrode modified with TiO_2 nanoparticles and carbon nanotubes in real samples, *Journal of Solid State Electrochemistry*. https://doi.org/10.1007/s10008-024-05978-4 (**2024**).

47- M. Mohammadi, A. A. Rafati**, A. Bagheri**, Development and characterization of ss-DNA/RGO/MoS2 modified carbon paste electrode for highly sensitive detection of capecitabine, *Sensing and Bio-Sensing Research*. 45 (**2024**) 100675.

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45- A. Rasouli, **A. Bagheri**, F. Nabizadeh-Chianeh, Hybrid membrane system with electrochemical oxidation process for removal of diclofenac sodium from aqueous solution, *Applied Chemistry Today*. 18 (2024) 101-112.

44- M. Mohammadi, A. A. Rafati, **A. Bagheri**, A Sensitive electrochemical DNA biosensor for determination of anti-cancer drug gemcitabine based on an AuNPs/MWCNTs/carbon paste electrode, *Journal of the Electrochemical Society* 170 (**2023**) 117510.

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41- **A. Bagheri**, Micellar interaction and thermodynamic behavior between double-chained surface active ionic liquid and conventional surfactants in aqueous solution, *Korean Journal of Chemical Engineering*, 40 (**2023**) 2017-2025.

40- M. Maddah, **A. Bagheri**, Determination of hydrophobicity and hydrophilicity ratio in the synergistic effect between cationic surfactants using coarse-grained MD simulation, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. 659 (**2023**) 130779.

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37- B. Abdous, S. M. Sajjadi **A. Bagheri**, Predicting the aggregation number of cationic surfactants based on ANN-QSAR modeling approaches: understanding the impact of molecular descriptors on aggregation numbers, *RSC advances*, 12 (**2022**) 33666–33678.

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35- **A. Bagheri**, Comparison of the interaction between propranolol hydrochloride (PPL) with anionic surfactant and cationic surface active ionic liquid in micellar phase, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. 615 (**2021**) 126183.

34- R. K. Farahani, **A. Bagheri**, Mixed micelle formation between a surface active ionic liquid and tricyclic antidepressant drugs (imipramine hydrochloride and amitriptyline hydrochloride), *Journal of Molecular Liquids*. 336 (**2021**) 116306.

33- Z. Mahdavifar, M. Afshari, **A. Bagheri**, A. Arab, Systematic investigation of structure and optoelectronic properties of Gen (n = 3–20), MGe9 (M = Ga, Si, Sn, As) and GaxGe(10−x) (x = 1–10) Clusters: Computational approach, *Polyhedron* 193 (**2021**) 114874.

32- P. Moeini, **A. Bagheri**, Adsorption kinetic modeling of toxic vapors on activated carbon in the batch reactor, *Research on Chemical Intermediates* 46 (**2020**) 5547-5566.

31- M. Abroodi, **A. Bagheri**, B. M. Razavizadeh, Surface Tension of Binary and Ternary Systems Containing Monoethanolamine (MEA), Water and Alcohols (Methanol, Ethanol, and Isopropanol) at 303.15 K*, J. Chem. Eng. Data,* 65 (**2020**) 3173–3182.

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29- A. Ghasemii, **A. Bagheri**, Effects of alkyl chain length on synergetic interaction and micelle formation between a homologous series of *n*-alkyltrimethylammonium bromides and amphiphilic drug propranolol hydrochloride, *Journal of Molecular Liquids*. 298 (**2020**) 111948.

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27- J. Chadha, **A. Bagheri**, Micellar behaviour of amphiphilic drug propranolol hydrochloride with cationic surfactant (Hyamine 1622) at different compositions in solution, *Physics and Chemistry of Liquids*, 57 (**2019**) 221-234.

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conductometric and spectrophotometric techniques, *Journal of Molecular Liquids*. 282 (**2019**) 466-473.

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24- E. Golmaghani-Ebrahimi, **A. Bagheri**, M. Fazli, Surface tension of binary and two ternary mixtures containing water–acetonitrile–methanol/ethanol at 298.15 K: experimental data, correlation and prediction by various models, *Physics and Chemistry of Liquids*, 56 (**2018**) 596-609.

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22- **A. Bagheri**, P. Khalili, Synergism between non-ionic and cationic surfactants in a concentration range of mixed monolayers at an air–water interface, *RSC Advances*. 7 (**2017**) 18151-18161**.**

21- **A. Bagheri**, S. M. Alinasab Ahmadi, Mixed micellization between amphiphilic drug propranolol hydrochloride and cetyltrimethylammonium bromide surfactant in aqueous medium, *Journal of Molecular Liquids*. 230 (**2017**) 454-260.

20- **A. Bagheri**, M. Fazli, M. Bakhshaei, Surface properties and surface thickness of aqueous solutions of alcohols, *Journal of Molecular Liquids*. 224 (**2016**) 442-451.

19- **A. Bagheri**, M. Fazli, M. Bakhshaei, Effect of temperature and composition on the surface tension and surface properties of binary mixtures containing DMSO and short chain alcohols, *J. Chem. Thermodynamics*, 101 (**2016**) 236–244.

18- **A. Bagheri**, Prediction of surface tension and surface concentration of binary refrigerant system (R290/R600a) at various temperatures and pressures, *Physics and Chemistry of Liquids*, 75 (**2016**) 727-739.

17- **A. Bagheri**, S. A. L. Mirbakhshi, Study of the surface properties and surface concentration of ionic liquid–alcohol mixtures*, Physics and Chemistry of Liquids*, 54 (**2016**) 529-541.

16- A. Hajian, A. A. Rafati, O. Yurchenko, G. Urban, A. Afraz, M. Najafi, **A. Bagheri**, Nanostructured Flower like Pt-Ru for Ethanol Oxidation and Determination" *Journal of the Electrochemical Society*,162 (**2015**) 41-46.

15- **A. Bagheri**, K. Alizadeh, How do temperature and chemical structure affect surface propertiesof aqueous solutions of carboxylic acids?, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. 467 (**2015**) 78-88.

14- **A. Bagheri**, A. Abolhasani, Binary mixtures of cationic surfactants with triton X-100 and the studies of physicochemical parameters of the mixed micelles" *Korean J. Chem. Eng.*, 32 (**2014**) 308-315.

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10- **A. Bagheri**, A. A. Rafati, A. Adeli Tajani, A. R. Afraz Borujeni, A. Hajian "Prediction of the Surface Tension, Surface Concentration and the Relative Gibbs Adsorption Isotherm of Non-ideal Binary Liquid Mixtures", *J. Solution. Chem*. 42 (**2013**) 2071-2086.

9- **A. Bagheri**, A. Abolhasani, A. R. Moghadasi, A. A. Nazari-Moghaddam, S. A. Alavi,"Study of surface tension and surface properties of binary systems of DMSO with

long chain alcohols at various temperatures" *J. Chem. Thermodynamics*. 63 (**2013**) 108–115.

8- **A. Bagheri**, A. H. Amiri-Majed, Surface thermodynamics of binary mixtures of aliphatic alcohols in heavy water, *J. Chem. Thermodynamics*. 51 (**2012**) 45–50.

7- A. A Rafati, **A. Bagheri**, A. R. Khanchi, E. Ghasemian, Application of the UNIFAC Model for Prediction of Surface Tension and Thickness of the Surface Layer in the Binary Mixtures, *J. Colloid and Interface science* 355 (**2011**) 252-258.

6- A. A Rafati, A. R. Afraz, **A. Bagheri**, Ultrasonic/surfactant assisted of CdS nano hollow sphere synthesis and Characterization", *Materials Characterization*. 62 (**2011**) 94-98.

5- A. A. Rafati, **A. Bagheri**, M. Najafi, Surface Tension of Nonideal Binary and Ternary Liquid Mixtures at Various Temperatures and $p = 81.5$ kPa, *J. Chem. Thermodynamics* 43 (**2011**) 248-254.

4- A. A. Rafati**, A. Bagheri**, M. Najafi, "Experimental Data and Correlation of Surface Tensions of the Binary and Ternary Systems Water + Acetonitrile + 2-Propanol at 298.15 K and Atmospheric Pressure"**,** *J. Chem. Eng. Data* 55 (**2010**) 4039-4043.

3- H. Beiginejad, **A. Bagheri**, L. Safdari Yekta, Z. B. Nojini, Thermodynamic studies of inclusion complex formation between alkyl pyridinium chlorides and *β*-cyclodextrin using conductometric method, *J. Incl. Phenom. Macrocycl. Chem* 67 (**2010**) 247-252.

2- A. A. Rafati, **A. Bagheri**, H. Iluokkhani, M. Zarinehzad, Study of inclusion complex formation between a homologous series of n-alkyl trimethyl ammonium bromides and *β*-Cyclodextrin, using conductometric technique, *Journal of Molecular Liquids*. 116 (**2005**) 37-41.

1- A. A. Rafati, **A. Bagheri**, Electrochemical and Thermodynamic Studies of inclusion complex Formation between Tetradecyltrimethyl ammonium Bromide (TTAB) and *β*-Cyclodextrin (*β*-CD)", *Bulletin of the Chemical Society of Japan*, 77(**2004**) 485-490.

Papers Presented at Conferences and Seminars

33- A. Rasouli, A. S. Soleymani Kia, **A. Bagheri,** Application of newly synthesized layered double hydroxides in preconcentration of heavy metals from aqueous samples using ICP-OES, 21th International Chemistry Congress, 26-28 July **2022**, Azarbaijan Shahid Madani University, Tabriz, Iran.

32- A. Rasouli, F. Nabizadeh Chianeh, **A. Bagheri,** The effect of cetyltrimethylammonium chloride surfactant on the structure and performance of PES membrane for filtration of pharmaceutical pollutants, 21th International Chemistry Congress, 26-28 July **2022**, Azarbaijan Shahid Madani University, Tabriz, Iran.

31- A. Bagheri, A. Abroodi, Prediction of Surface Tension of Binary Mixtures Using Artificial Neural Networks, 26th Iranian Analytical Chemistry Conference, 25-27 August **2019**, Semnan University, Semnan, Iran.

30- A. Mazinani, **A. Bagheri**, Soheila Faraji, Ali Arab, Corrosion resistance of Ni-Cu-P with the addition of nano SiC particles, 26th Iranian Analytical Chemistry Conference, 25-27 August **2019**, Semnan University, Semnan, Iran.

29- G. Fouladi Vanda, **A. Bagheri**, Soheila Faraji, Ali Arab, The Effect of TiO_2 Nanoparticles on the Corrosion Properties of Electroless Ni-Cu-P Composite Coatings, 26th Iranian Analytical Chemistry Conference, 25-27 August **2019**, Semnan University, Semnan, Iran.

28- H. Mohammadi, **A. Bagheri**, Effect of Electrolyte concentration on the aggregation behavior of cationic surfactant Tetradecyltrimethylammonium Bromide(TTAB) at 298.15 K, 26th Iranian Analytical Chemistry Conference, 25-27 August **2019**, Semnan University, Semnan, Iran.

27- P. Jafari-Chashmi, **A. Bagheri**, The study of synergism between N-lauryl sarcosine sodium and lithium dodecyl sulfate using conductometric technique, 20th Iranian Chemistry Congress, 17-19 July **2018**, Ferdowsi University of Mashhad, Mashhad, Iran.

26- P. Jafari-Chashmi, **A. Bagheri**, A comparison between three methods for determination of the critical micelle concenteration in ionic surfactants, 20th Iranian Chemistry Congress, 17-19 July **2018**, Ferdowsi University of Mashhad, Mashhad, Iran.

25- E. Taheri, **A. Bagheri**, Investigation of Surface and Micellar Properties of Mixed Cationic Surfactant and Ionic Liquid in Aqueous Medium, 20th Iranian Physical Chemistry Conference, 20-22 August **2017**, Arak University, Arak, Iran.

24- N. Faraji, **A. Bagheri**, "Study of mixed micellization between surfactants and ionic liquid at different compositions using conductometric technique", 12th Biennial Electrochemistry Seminar of Iran(12BESI), 3-4 May **2017**, University of Isfahan, Isfahan, Iran.

23- M. Bakhshaei, **A. Bagheri**, M. Fazli, "Application of the LWW Model for Surface Tension Prediction of Nonideal Aqueous Solutions of Alcohols by new method", 19th Iranian Physical Chemistry Conference, 13-15 September **2016**, University of Guilan, Rasht, Iran.

22- M. Bakhshaei, **A. Bagheri**, M. Fazli, "Surface thermodynamics and surface properties of binary mixtures containing DMSO and alcohols", 19th Iranian Physical Chemistry Conference, 13-15 September **2016**, University of Guilan, Rasht, Iran.

21- A. Bagheri, J. Chadha, "Investigating of Synergism in Critical Micelle Concentration (CMC) of Cationic Surfactant and Amphiphilic drug Mixtures", 19th Iranian Physical Chemistry Conference, 13-15 September **2016**, University of Guilan, Rasht, Iran.

20- A. Bagheri, J. Chadha, "Interface and Mixed Micelle Analysis between Surfactants (CPC and Hyamine) by Using Conductometric Technique", 19th Iranian Physical Chemistry Conference, 13-15 September **2016**, University of Guilan, Rasht, Iran.

19- A. Bagheri, "Application of the UNIFAC Group-Contribution Model for Calculation of the Surface Concentration and Thickness of the Surface Layer in Binary System" 18th Iranian Chemistry Congress, 30 August-1 September **2015**, Semnan University, Semnan, Iran.

18- Z. Mahdavifar, **A. Bagheri**, M. Afshari, "Theoretical prediction of geometry and electronic properties of pristine Ge_n (n=3-20) clusters", 18th Iranian Chemistry Congress, 30 August-1 September **2015**, Semnan University, Semnan, Iran.

17- A. Bagheri, S. A. Mirbakhshi, "Investigation of the surface tension and the interaction energy between the ionic liquid and long-chain alkyl alcohols at different temperatures", 18th Iranian Chemistry Congress, 30 August-1 September **2015**, Semnan University, Semnan, Iran.

16- A. Bagheri, P. Khalili, "Synergism and Surface Studies of Mixed Cationic and Non-ionic Surfactants", 18th Iranian Chemistry Congress, 30 August-1 September **2015**, Semnan University, Semnan, Iran.

15- A. Bagheri, Z. Moradian, "Application of the UNIFAC Model for Calculation of the Relative Gibbs Adsorption in the Binary Mixtures at Various Temperatures", 17th Iranian Physical Chemistry Conference, 21-23 October **2014**, University of K. N. Toosi, Tehran, Iran.

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Iranian Physical Chemistry Conference, 3-6 September **2012**, University of Tehran, Tehran, Iran.

12- A. Bagheri, F. Varaminian, S. Khosharay, "Prediction of surface properties of binary refrigerant mixture with density (volume) based model", 15th Iranian Physical Chemistry Conference, 3-6 September **2012**, University of Tehran, Tehran, Iran.

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9- A. A. Nazari-Moghaddam, S. A. Alavi, **A. Bagheri**, "Synergism/antagonism studies between antifoam-antihydrate using surface tension technique", 15th Iranian Physical Chemistry Conference, 3-6 September **2012**, University of Tehran, Tehran, Iran.

8- A. Bagheri, A. H. Amiri-Majed, "Surface thermodynamics of binary mixtures of heavy water in alcohols", 15th Iranian Chemistry Congress, 4-6 September **2011**, Bu-Ali Sina University, Hamedan, Iran.

7- A. Bagheri, A.A. Rafati, "Surface Tension of Nonideal Ternary Liquid Mixtures at 298.15 K and Atmospheric Pressure" 13th Iranian Physical Chemistry Seminar, April, **2010**, Shiraz University and Shiraz University of Technology, Shiraz, Iran.

6- A. Bagheri, A.A. Rafati, "Theoretical prediction of surface tension of binary liquid system (R290 + R600a) at various temperature and pressure", 13th Iranian Physical Chemistry Seminar, April, **2010**, Shiraz University and Shiraz University of Technology, Shiraz, Iran.

5- A. Bagheri, H. Beigianejad, L. Safdari-Yekta, "Thermodynamic and Electrochemical Studies of the Inclusion complex Formation between Cationic Surfactants and β-Cyclodextrin**",** 16th Iranian Seminar of Analytical Chemistry, 28-30 July **2009**, Bu-Ali Sina University, Hamedan, Iran**.**

4- A. A. Rafati, **A. Bagheri**, L. Safdari-Yekta, "Determination of the Complexation Constants between Cetyltrimethylammonium Bromide (CTAB) and β-Cyclodextrin at Various Temperatures Using Coated Wire Ion Selective Electrodes", 7th Biennial Electrochemistry Seminar of Iran(7BESI), August **2007**/8/28 to 2007/8/30, Urmia University, Urmia, Iran.

3- A. A. Rafati, **A. Bagheri**, L. Safdari-Yekta,"Electrochemical and Thermodynamic Study of the Inclusion Complex Between Tetradecyltrimethyl Ammonium Bromide and

beta-Cyclodextrin", 12th Iranian Seminar of Analytical Chemistry, **2003**/1/28 to 2003/1/30, University of Mazandaran, Babolsar, Iran.

2- A. A. Rafati, **A. Bagheri**, L. Safdari-Yekta,"Study of Inclusion Complex Between a Homologous Series of n-Alkyltrimethyl Ammonium Bromides and β-Cyclodextrin by Conductometric Technique", 12th Iranian Seminar of Analytical Chemistry, **2003**/1/28 to 2003/1/30, University of Mazandaran, Babolsar, Iran.

1- A.A. Rafati, **A. Bagheri**, L. Safdari-Yekta,"Thermodynamic Study of Inclusion Complex between Cationic Surfactants and Cyclodextrins By Coating Wire Surfactant Ion Selective Electrode", 5th Conference of Physical Chemistry, **2002**/9/6 to 2002/9/9, Persian Gulf University, Bushehr, Iran.
