

## Scientific CV

### Hossein Gharibi Biography

Date of birth 1958 (53 years old)

Gust Editor of International Journal of Hydrogen Energy ( International Association of Hydrogen Energy, USA 2009 up to now)

Chairman of Electrochemical society of Iran 2004 -Jan 2012

Visiting Professor, Dept of Material Sci. & Eng. , University of UTAH 2012, USA

Chairman of Department of Chemistry 4 years

Director of IRANDOC [www. Irandoc.ac.ir](http://www.Irandoc.ac.ir) (1992-2008)

B.Sc. 1985 from Shiraz University (IRAN)

M.Sc .1987 from Salford University (UK)

PhD 1990 from Salford University (UK)

Assistance Professor in Tarbiat Modares University 1991-1997

Associate Professor in Tarbiat Modares University 1997-2001

Full professor in Tarbiat Modares University 2001-2012

Organizer of too many scientific conferences.

Charge in manager of the following journals (1992-2008)

- Information Sciences and Technology quarterly (1993- 2008) originally IRANDOC Technical

## Journal

- Iranian Dissertation Abstracts Quarterly (1993- 2008)
- Dissertations abstracts of Iranian graduates abroad Quarterly (1995-2008)
- Current Research in Iranian universities and research centers Quarterly (1993-2008)
- Abstracts of Scientific-Technical Papers Quarterly (1993-2008)
- Directory of Scientific Meetings held in Iran Quarterly (1993-2008)
- Khazar (Caspian Sea) Scientific Information Quarterly (1993-1997)
- Educational Scientific Information Quarterly (1994-1997)
- Iranian Scholars and Experts Database annually (1996-2008)

## Course Experience (1990-2012)

- Physical Chemistry( B.Sc)
- Advanced Physical Chemistry (M.Sc.)
- Advanced kinetic and Dynamic (M.Sc.)
- Surface Chemistry (Ph.D.)
- Modern Electrochemistry( M.Sc and Ph.D.)
- Surface Electrochemistry (Ph.D.)
- PEM Fuel Cell (Ph.D.)
- Surface Active Agent ( Colloid and Surfaces) (Ph.D.)

## Articles Published in International Journals

Articles	Title / Author	Cited by	Year
1)	<a href="#">Monte Carlo Simulation of Binary Surfactant/Contaminant/Water Systems</a> Z Khodadadi, SM Mousavi-Khoshdeld, H Gharibi, M Hashemianzadeh, S Javadian Journal of Molecular Graphics and Modelling		2012
2)	<a href="#">Performing of novel nanostructure MEA based on polyaniline modified anode in direct methanol fuel cell</a> M Zhiani, H Gharibi, K Kakaei		2012

	Journal of Power Sources		
3)	<p>Aggregation behavior and intermicellar interactions of cationic Gemini surfactants: Effects of alkyl chain, spacer lengths and temperature</p> <p>M Hajy Alimohammadi, S Javadian, H Gharibi, MR Alavijeh, K Kakaei</p> <p>The Journal of Chemical Thermodynamics 44 (1), 107-115</p>		2012
4)	<p>A Comprehensive Study of Tartrazine-Cationic Surfactant Interaction</p> <p>A Asadzadeh Shahir, S Javadian, BM Razavizadeh, H Gharibi</p> <p>The Journal of Physical Chemistry B</p>		2011
5)	<p>Introduction-3rd Iranian fuel cell seminar</p> <p>H Gharibi</p> <p>International Journal of Hydrogen Energy 36 (20), 13234</p>		2011
6)	<p>Effect of polyaniline-doped trifluoromethane sulfonic acid nanofiber composite film thickness on electrode for methanol oxidation</p> <p>H Gharibi, K Kakaei, M Zhiani, MM Taghiabadi</p> <p>International Journal of Hydrogen Energy 36 (20), 13301-13309</p>	1	2011
7)	<p>Optimization of the amount of Nafion in multi-walled carbon nanotube/Nafion composites as Pt supports in gas diffusion electrodes for proton exchange membrane fuel cells</p> <p>H Gharibi, M Javaheri, M Kheirmand, RA Mirzaie</p> <p>International Journal of Hydrogen Energy 36 (20), 13325-13334</p>	2	2011
8)	<p>Cosolvent Effects on the Spontaneous Formation of Nanorod Vesicles in Catanionic Mixtures in the Rich Cationic Region</p> <p>A yousefi, S Javadian, H Gharibi, jamal Kakehmam, M Rashidi-Alavijeh</p> <p>The Journal of Physical Chemistry B</p>		2011
9)	<p>Vesicular Mixed Gemini- SDS- Hemin- Imidazole Complex as a Peroxidase-Like Nano Artificial Enzyme</p> <p>H Gharibi, Z Moosavi-Movahedi, S Javadian, K Nazari, AA Moosavi-Movahedi</p> <p>The Journal of Physical Chemistry B</p>	2	2011
10)	<p>Intermolecular interactions between a dye and cationic surfactants: Effects of alkyl chain, head group, and counterion</p> <p>MR Alavijeh, S Javadian, H Gharibi, M Moradi, AA Shahir</p> <p>Colloids and Surfaces A: Physicochemical and Engineering Aspects</p>	1	2011
11)	<p>The synergy between multi-wall carbon nanotubes and Vulcan XC72R in microporous layers</p> <p>H Gharibi, M Javaheri, RA Mirzaie</p> <p>International Journal of Hydrogen Energy 35 (17), 9241-9251</p>	1	2010
12)	<p>Optimization of Nafion content in Nafion-polyaniline nano-composite modified cathodes for PEMFC application</p> <p>M Zhiani, H Gharibi, K Kakaei</p>	1	2010

	International Journal of Hydrogen Energy 35 (17), 9261-9268		
13)	Platinum nanoparticles supported by a Vulcan XC-72 and PANI doped with trifluoromethane sulfonic acid substrate as a new electrocatalyst for direct methanol fuel cells H Gharibi, K Kakaei, M Zhiani The Journal of Physical Chemistry C 114 (11), 5233-5240	12	2010
14)	Adsorption and micellar properties of binary ionic/nonionic surfactant mixtures in ethylene glycol+ water S Javadian, H Gharibi, HT Fallah Journal of Chemical & Engineering Data 55 (3), 1122-1130	5	2010
15)	Synthesis of Pt Nanoparticles on the Vulcan XC-72 Using EDTA-2Na and Various Binary Solvents for Development of PEM Fuel Cells H Gharibi, A Heydari, M Alavi, M Javaheri, M Zhiani ECS		2009
16)	Molecular interactions of cationic and anionic surfactants in mixed monolayers and aggregates B Sohrabi, H Gharibi, B Tajik, S Javadian, M Hashemianzadeh The Journal of Physical Chemistry B 112 (47), 14869-14876	17	2008
17)	Lattice Monte Carlo simulation of dilute ionic surfactants SM Hashemianzadeh, H Gharibi, SM Mousavi-Khoshdeld, B Sohrabi, MA Safarpour Journal of Molecular Liquids 138 (1-3), 147-154	4	2008
18)	Electrolyte effect on mixed micelle and interfacial properties of binary mixtures of cationic and nonionic surfactants S Javadian, H Gharibi, Z Bromand, B Sohrabi Journal of colloid and interface science 318 (2), 449-456	14	2008
19)	Determination of the physico-chemical parameters and aggregation number of surfactant in micelles in binary alcohol-water mixtures S Javadian, H Gharibi, B Sohrabi, H Bijanzadeh, MA Safarpour, R Behjatmanesh ... Journal of Molecular Liquids 137 (1), 74-79	22	2008
20)	A new model to study the phase transition from microstructures to nanostructures in ionic/ionic surfactants mixture B Sohrabi, H Gharibi, S Javadian, M Hashemianzadeh The Journal of Physical Chemistry B 111 (34), 10069-10078	11	2007
21)	Study of the synergism effect of a binary carbon system in the nanostructure of the gas diffusion electrode (GDE) of a proton exchange membrane fuel cell M Kheirmand, H Gharibi, R Abdullah Mirzaie, M Faraji, M Zhiani Journal of power sources 169 (2), 327-333	4	2007
22)	Complexation between a macromolecule and an amphiphile by Monte Carlo technique H Gharibi, R Behjatmanesh-Ardakani, M Hashemianzadeh, M	6	2006

	Mousavi-Khoshdel The Journal of Physical Chemistry B 110 (27), 13547-13553		
23)	Investigation of polyaniline impregnation on the performance of gas diffusion electrode (GDE) in PEMFC using binary of Nafion and polyaniline nanofiber H Gharibi, M Zhiani, RA Mirzaie, M Kheirmand, AA Entezami, K Kakaei, M Javaheri Journal of power sources 157 (2), 703-708	22	2006
24)	Study of polyaniline doped with trifluoromethane sulfonic acid in gas-diffusion electrodes for proton-exchange membrane fuel cells H Gharibi, M Zhiani, AA Entezami, RA Mirzaie, M Kheirmand, K Kakaei Journal of power sources 155 (2), 138-144	22	2006
25)	Study of thermodynamic parameters in amphiphilic systems by lattice Monte Carlo: effect of tails and heads H Gharibi, R Behjatmanesh-Ardakani, SM Hashemianzadeh, SM Mousavi-Khoshdel ... Theoretical Chemistry Accounts: Theory, Computation, and Modeling ...	9	2006
26)	Further study on the micellization of a symmetric amphiphile using the monte carlo technique H Gharibi, R Behjatmanesh-Ardakani, SM Hashemianzadeh, B Sohrabi, S Javadian Bulletin of the Chemical Society of Japan 79 (9), 1355-1361	6	2006
27)	Investigation of interaction parameters in mixed micelle using pulsed field gradient NMR spectroscopy H Gharibi, S Javadian, B Sohrabi, R Behjatmanesh Journal of colloid and interface science 285 (1), 351-359	13	2005
28)	Preparation of platinum electrocatalysts using carbon supports for oxygen reduction at a gas-diffusion electrode H Gharibi, RA Mirzaie, E Shams, M Zhiani, M Khairmand Journal of power sources 139 (1), 61-66	15	2005
29)	Study of the electrostatic and steric contributions to the free energy of ionic/nonionic mixed micellization H Gharibi, B Sohrabi, S Javadian, M Hashemianzadeh Colloids and Surfaces A: Physicochemical and Engineering Aspects 244 (1 ...	9	2004
30)	Thermodynamic studies of mixed ionic/nonionic surfactant systems BM Razavizadeh, M Mousavi-Khoshdel, H Gharibi, R Behjatmanesh-Ardakani, S ... Journal of colloid and interface science 276 (1), 197-207	16	2004

31)	Investigation of the aggregation number, degree of alcohol attachment and premicellar aggregation of sodium dodecyl sulfate in alcohol-water mixtures AA Rafati, H Gharibi, M Rezaie-Sameti Journal of molecular liquids 111 (1), 109-116	24	2004
32)	Investigation of interaction of cationic surfactant with HSA in the presence of alcohols using PFG-NMR and potentiometric technique H Gharibi, S Javadian, M Hashemianzadeh Colloids and Surfaces A: Physicochemical and Engineering Aspects 232 (1), 77-86	23	2004
33)	Colloid and Surfaces A: Physicochem H Gharibi, S Javadian, M Hashemianzadeh Eng. Aspects 232, 77	4	2004
34)	Binding set analysis for interaction of human serum albumin with cethyl trimethylammonium bromide AK Bordbar, N Sohrabi, H Gharibi BULLETIN-KOREAN CHEMICAL SOCIETY 25 (6), 791-795	14	2004
35)	The interactions of a homologous series of cationic surfactants with bovine serum albumin (BSA) studied using surfactant membrane selective electrodes AA Rafati, AK Bordbar, H Gharibi, MK Amini, MA Safarpour Bulletin of the Chemical Society of Japan 77 (6), 1111-1116	26	2004
36)	Conformational stability of bovine serum albumin by cationic surfactant treatments AA Rafati, H Gharibi, H Iloukhani Physics and Chemistry of Liquids 41 (5), 509-517	12	2003
37)	Fabrication of gas-diffusion electrodes at various pressures and investigation of synergetic effects of mixed electrocatalysts on oxygen reduction reaction H Gharibi, RA Mirzaie Journal of power sources 115 (2), 194-202	8	2003
38)	Aggregation number of ionic surfactants and its application for alkyltrimethyl ammonium bromides and sodium tetradecyl sulfate by potentiometric technique AA Fafati, H Gharibi, H Iloukhani, L Safdari Physics and Chemistry of Liquids 41 (3), 227-238	9	2003
39)	The effect of dodecyl trimethylammonium bromide on the formation of methemoglobins and hemichrome D Ajloo, AA Moosavi-Movahedi, GH Hakimelahi, AA Saboury, H Gharibi Colloids and Surfaces B: Biointerfaces 26 (3), 185-196	41	2002
40)	Knowledge at international level S Ensafi, H Gharibi Tehran: Irandoc	2	2002
41)	Comparative structural and functional studies of avian and mammalian hemoglobins D Ajloo, AA Moosavi-Movahedi, M Sadeghi, H Gharibi	10	2002

	ACTA BIOCHIMICA POLONICA-ENGLISH EDITION- 49 (2), 459-470		
42)	Determination of interaction parameters of mixed surfactant system using a Monte Carlo simulation technique H Gharibi, SM Hashemianzadeh, BM Razavizadeh Colloids and Surfaces A: Physicochemical and Engineering Aspects 196 (1), 31-38	13	2002
43)	Micellization of cetylpyridinium chloride using conductometric technique AA Rafati, H Gharibi, H Iloukhani Physics and Chemistry of Liquids 39 (4), 521-532	4	2001
44)	Electrochemical studies of interaction between cetyltrimethylammonium bromide and $\alpha$ -, $\beta$ -cyclodextrins at various temperature H Gharibi, S Jalili, T Rajabi Colloids and Surfaces-A-Physicochemical and Engineering Aspects 175 (3), 361-370		2001
45)	Electrochemical studies of interaction between cetyltrimethylammonium bromide and $[\alpha]$ -, $[\beta]$ -cyclodextrins at various temperature H Gharibi, S Jalili, T Rajabi Colloids and Surfaces A: Physicochemical and Engineering Aspects 175 (3) ...	23	2000
46)	New approach for the studies of physicochemical parameters of interaction of Triton X-100 with cationic surfactants H Gharibi, BM Razavizadeh, M Hashemianzaheh Colloids and Surfaces A: Physicochemical and Engineering Aspects 174 (3) ...	32	2000
47)	Information, communication and technology and Knowledge Management in Iran H Gharibi Journal of Information Sciences and Technology 15 (3), 42-47		2000
48)	Influence of Short-Chain Alcohols on the Micellization Parameters of Sodium Dodecyl Sulfate (SDS) MA Safarpour, AA Rafati, H Gharibi, MR Sameti JOURNAL-CHINESE CHEMICAL SOCIETY TAIPEI 46 (6), 983-992	7	1999
49)	New approach for determination of macroscopic binding constants of ligands to macromolecules H Gharibi, MA Safarpour, AA Rafati Journal of colloid and interface science 219 (2), 217-224	10	1999
50)	Thermodynamic studies of interaction between cationic surfactants and polyvinyl pyrrolidone using potentiometric techniques H Gharibi, AA Rafati, A Feizollahi, BM Razavizadeh, MA Safarpour Colloids and Surfaces A: Physicochemical and Engineering Aspects 145 (1-3) ...	27	1998



51)	Electrochemical studies associated with the micellization of dodecyltrimethyl ammonium bromide (DOTAB) in aqueous solutions of ethanol and 1-propanol H Gharibi, BM Razavizadeh, AA Rafati Colloids and Surfaces A: Physicochemical and Engineering Aspects 136 (1-2 ...	47	1998
52)	Electrochemical and kinetic studies of micellization of sodium tetradecyl sulfate in the presence of poly (vinylpyrrolidone) H Gharibi, AA Rafati Langmuir 14 (8), 2191-2196	17	1998
53)	Physicochemical studies of the hexadecylpyridinium bromide micellar system in the presence of various concentrations of sodium bromide using a surfactant-selective electrode M SHAMSIPOUR, N Alizadeh, H Gharibi INDIAN JOURNAL OF CHEMISTRY SECTION A 36 (12), 1031-1036	4	1997
54)	Electrochemical Study of the Micellization of Hexadecylpyridinium Bromide in the Presence of Some Crown Ethers M Shamsipur, N Alizadeh, H Gharibi, MF Mousavi JOURNAL-CHINESE CHEMICAL SOCIETY TAIPEI 44, 9-16	8	1997
55)	Electrochemical Study of the Thermodynamics of Micellization of Hexadecylpyridinium Bromide M Shamsipur, N Alizadeh, H Gharibi Bulletin of the Chemical Society of Japan 69 (2), 311-314	10	1996
56)	Electrochemical Study of the Micellization of Hexadecylpyridinium Bromide in Binary Methanol-Water Mixtures N Alizadeh, H Gharibi, M Shamsipur Bulletin of the Chemical Society of Japan 68 (3), 730-733	17	1995
57)	Electrochemical studies associated with the micellization of cationic surfactants in aqueous mixtures of ethylene glycol and glycerol R Palepu, H Gharibi, DM Bloor, E Wyn-Jones Langmuir 9 (1), 110-112	100	1993
58)	Electrochemical studies associated with micellization of cationic surfactants in ethylene glycol H Gharibi, R Palepu, DM Bloor, DG Hall, E Wyn-Jones Langmuir 8 (3), 782-787	77	1992
59)	Analysis of the fast relaxation times for micelle kinetics taking into account new EMF data H Gharibi, N Takisawa, P Brown, MA Thomason, DM Painter, DM Bloor, DG Hall ... J. Chem. Soc., Faraday Trans. 87 (5), 707-710	24	1991
60)	The use of surfactant selective electrodes in non-aqueous solvents H Garibi, R Palepu, GJT Tiddy, DG Hall, E Wyn-Jones Journal of the Chemical Society. Chemical communications,	12	1990



	115-116		
61)	<a href="#">Tetrakis (Pyridine) silver Dichromate Py4Ag2Cr2O7-A Mild and Efficient Reagent for the Conversion of Benzylic and Allylic Alcohols to Their Corresponding Carbonyl Compounds</a> H Firouzabadi, A Sardarian, H Gharibi Synthetic Communications 14 (1), 89-94	25	1984

## Conference Articles Presented in National and International Meeting

1. Farhad Golmohammadi, Hussein Gharibi, Mehdi Kheirmand; Activated Carbon Nanotubes as a Secondary Support of a Pd3Co Nanocatalyst in a Gas Diffusion Electrode for Oxygen Electroreduction Reaction; 5th fuel cell seminar of Iran, Tarbiat Modares university, Tehran, Iran, 2012 .
2. Mohammad Amir Saadatinasab, Hussein Gharibi, Alireza Zolfaghari; Development of Palladium Membrane for Hydrogen Purification; 5th fuel cell seminar of Iran, Tarbiat Modares university, Tehran, Iran, 2012 .
3. Mitra Amani, Hassan Pahlavanzadeh, Hussein Gharibi, Mohammad Kazemini, Zarringhalam; Effect of Methanol Concentration on the Performance of Passive Direct Methanol Fuel Cells; 5th fuel cell seminar of Iran, Tarbiat Modares university, Tehran, Iran, 2012 .
4. Maryam Aghili Nategh, Hussein Gharibi; Effect of Solvent Dielectric Constant in Catalyst Ink on Proton Exchange Membrane Fuel Cell Performance; 5th fuel cell seminar of Iran, Tarbiat Modares university, Tehran, Iran, 2012 .
5. Maryam Aghili Nategh, Hussein Gharibi; The Effect of Condition Operating on Proton Exchange Membrane Fuel Cell Performance; 5th fuel cell seminar of Iran, Tarbiat Modares university, Tehran, Iran, 2012 .
6. Fatemeh Yasi, Hussein Gharibi, Ahmad Heydari; Pt Nanoparticles Supported on Functionalized Carbon Supports for Polymer Electrolyte Fuel Cell Electrodes; 5th fuel cell seminar of Iran, Tarbiat Modares university, Tehran, Iran, 2012 .
7. Farhad Golmohammadi, Hussein Gharibi, Mahdi Kheirmand; Multi-wall Carbon Nanotubes Supported Palladium-Cobalt Nanoparticles with Uniform Alloy Structure as Methanol-Tolerant Electrocatalyst for Oxygen Reduction Reaction; 5th fuel cell seminar of Iran, Tarbiat Modares university, Tehran, Iran, 2012 .
8. Mitra Amani, Hassan Pahlavanzadeh, Hussein Gharibi, Mohammad Kazemini, Zarringhalam; Optimum Ratio of Doped PANI with Para Toluene Sulfonic acid in C-PANI-PTSA Composite as Pt Support in Direct Methanol Fuel Cells; 5th fuel cell seminar of Iran, Tarbiat Modares university, Tehran, Iran, 2012 .
9. Hussein Gharibi, Monireh Faraji; PVP Decorated Platinum/Graphene Nanoparticles as an Electrocatalyst for Oxygen Reduction Reaction in PEM Fuel Cells; 5th fuel cell seminar of Iran,

Tarbiat Modares university, Tehran, Iran, 2012 .

10. M.Amani\*, H.Gharibi, H.Pahlevanzadeh; Synergism of Polyaniline Nanowires and Sn Nanoparticles on Catalytic Activity of Pt in Direct Methanol Fuel Cells; 7th annual seminar of electrochemistry of Iran, K.N. Toosi University of Technology, Faculty of Science, 18-19 November, Tehran, Iran, 2011
11. F. Yasi, Hussein Gharibi, A. Heydari Tork Abad; A phenyl-sulfonic acid anchored carbon-supported platinum catalyst for polymer electrolyte fuel cell electrodes; 7th annual seminar of electrochemistry of Iran, K.N. Toosi University of Technology, Faculty of Science, 18-19 November, Tehran, Iran, 2011
12. M. Aghili nategh, Hussein Gharibi; A new method for Pt nanoparticles deposition by EDTA ligand and it's performance in polymer electrolyte membrane fuel cells; 7th annual seminar of electrochemistry of Iran, K.N. Toosi University of Technology, Faculty of Science, 18-19 November, Tehran, Iran, 2011
13. Hussein Gharibi<sup>1</sup>, Monireh Faraji<sup>1\*</sup>, Mehdi Kheirmand; Graphene supported Pt electrocatalyst for oxygen reduction reaction for PEM fuel cell; 7th annual seminar of electrochemistry of Iran, K.N. Toosi University of Technology, Faculty of Science, 18-19 November, Tehran, Iran, 2011
14. M.A. Saadatinasb, H. Gharibi<sup>1</sup>, A. Zolfaghari; Palladium Membrane for Hydrogen Purification; 7th annual seminar of electrochemistry of Iran, K.N. Toosi University of Technology, Faculty of Science, 18-19 November, Tehran, Iran, 2011
15. Monte Carlo Simulation of Gemini Surfactants; Zahra Khodadadi<sup>1</sup>, Hussein Gharibi<sup>2</sup>, S. Morteza Mousavi-Khoshdel; 7th annual seminar of electrochemistry of Iran, K.N. Toosi University of Technology, Faculty of Science, 18-19 November, Tehran, Iran, 2011
16. Farhad Golmohammadi, Hussein Gharibi, Mehdi Kheirmand; Preparation, structural characterization and activity of carbon supported non-platinum nanoparticles for oxygen electroreduction in direct methanol fuel cells; 7th annual seminar of electrochemistry of Iran, K.N. Toosi University of Technology, Faculty of Science, 18-19 November, Tehran, Iran, 2011
17. Hussein Gharibi, Mahboobeh Hamedanian, Rasul Abdolah Mirzaee; The effect of Sn and cerium oxide nanoparticles on pt electrocatalyst for development of DMFC; 4th Fuel Cell seminar of Iran, Tehran, Iran, December 2010
18. Farhad Golmohammadi, Hussein Gharibi, Mehdi Kheyrmand, Monireh Faraji, Ahmad Heydari; PdCo oxygen reduction electrocatalyst for polymer electrolyte memberane and direct methanol fuel; 4th Fuel Cell seminar of Iran, Tehran, Iran, December 2010
19. Mohammad Mohammadi Taghiabadi, Karim Kakaei, Hussein Gharibi; Synthesis of Nono particle of pt in two phase system for catalyst layer in PEM; 4th fuel cell seminar of Iran; Tehran, Iran, 2010
20. Karim Kakaei, Hussein Gharibi, Mohammad Zhiani, Rasul Abdolah Mirzaee; Platinum nano Particles supported by a Vulcan and conductive polymer substrate as a new electrocatalyst for;

4th Fuel Cell seminar of Iran, Tehran, Iran, December 2010

21. Fatemeh Yasi, Hussein Gharibi; Synthesis and characterization of New Electrocatalyst using platinum nanoparticles supported on; 6th Annual seminar of electrochemistry of Iran, Kish Island, Iran, 10/9/2010

22. Hussein Gharibi, Monireh Faraji, Mehdi Kheirmand, Farhad Golmohammadi; Electrochemical and physicochemical characterizations of binary Pt/Co catalyst for Oxygen, 6th Annual seminar of electrochemistry of Iran, Kish Island, Iran, 10/9/2010

23. Hussein Gharibi, Karim Kakaei, Mohammad Zhiani; Platinum Nanoparticles supported by a Vulcan and PANI substrate as a new electrocatalyst for oxygen reduction reaction; 6th Annual seminar of electrochemistry of Iran, Kish Island, Iran, 10/9/2010

24. Hussein Gharibi, Mohammad Saadati Nasab; Palladium composite Membrane for H<sub>2</sub> Purification using Fe<sub>2</sub>O<sub>3</sub> and TiO<sub>2</sub> as diffusion barrier, 6th Annual seminar of electrochemistry of Iran, Kish Island, Iran, 10/9/2010

25. Zeinab Mousavi Movahhedi, Hussein Gharibi, Hassan Nazari, Soheila Javadian Farzaneh, Amn Lu, Ali Akbar Mousavi Movahhedi; Dynamic Light Scattering study of inclusion of Heme-Imidazol group in micelles and vesicles; 6th Annual seminar of electrochemistry of Iran, Kish Island, Iran, 10/9/2010

26. Hasti Aghdas Tinat, Alireza Tehrani Bagha, Hussein Gharibi, Soheila Javadian Farzaneh; The Aggregation Behavior of Ester Containing Gemini Surfactants, 6th Annual seminar of electrochemistry of Iran, Kish Island, Iran, 10/9/2010

27. Hussein Gharibi, Fariba Jalili, Rasul Abdolah Mirzaee; Effect of catalyst Layer Thickness on Performance of Gas Diffusion Electrode for PEMFC, 6th Annual seminar of electrochemistry of Iran, Kish Island, Iran, 10/9/2010

28. Hussein Gharibi, Jalal Jalili, Mohammad Zhiani, Behzad Rezaee, Hussein Rostami, Majid Seydaee; Preparation and Evaluation of Pt-Ru/Acetylene Black (AB) catalyst for Methanol Electro oxidation, 6th Annual of electrochemistry of Iran, Kish Island, Iran, 10/9/2010

29. Zahra Khodadadi, Hussein Gharibi, Seyed Madjid Hashemianzadeh; The Monte Carlo simulation of Mixed Binary Surfactant/Oil/Water Systems; 6th Annual seminar of electrochemistry of Iran, Kish Island, Iran, 10/9/2010

30. Hussein Gharibi, Mitra Amani, Hassan Pahlavanzadeh; A New Electrocatalyst with High Monoxide carbon (CO) Tolerance for Polymer Electrolyte Fuel Cells, 6th Annual seminar of electrochemistry of Iran, Kish Island, Iran, 10/9/2010

31. Fariba Jalili, Hussein Gharibi, Rasul Abdolah Mirzaee; Effect of Mixture of Vulcan & MW<sub>2</sub>CNT as the supports on Performance of Gas Diffusion Electrode for PEMFC, 6th Annual seminar of electrochemistry of Iran, Kish Island, Iran, 10/9/2010

32. Hussein Gharibi, Monireh. Farajia, Mehdi Kheirmand, ENHANCED PERFORMANCE OF ORR GAS DIFFUSION ELECTRODES WITH PANI/NAFION; 10th International Conference on Clean Energy

(ICCE-2010), Famagusta, Cyprus, 2010

33. Hussein Gharibi, Ahmad Heydari, Masoumeh Javaheri, Mohammad Zhiani; Study of various reduction agents on making nano platinum particles on carbon Vulcan for using in PEMFC, 3rd Fuel cell seminar of Iran, Tehran, Iran, 10/28/2009

34. Hussein Gharibi, Monireh Faraji, Rasul Abdollah Mirzaee, Mahdi Kheyrmand; Modification of Polyaniline/ Nafion content at PEM Fuel Cells gas diffusion electrodes, 3rd Fuel cell seminar of Iran, Tehran, Iran, 10/28/2009

35. Hussein Gharibi, Seyed Masoud Ghari Ghoran , Rasul Abdollah Mirzaee, Masoumeh Javaheri, Ahmad Heydari; The effect of cetyl-trimethylammonium bromide (CTAB), 3rd Fuel cell seminar of Iran, Tehran, Iran, 10/28/2009

36. Hussein Gharibi, Karim Kakaei, Mohammad zhiani; Platinum on the vulcan polyaniline doped trifluoromethane sulfonic acide composite as a new; 3rd Fuel cell seminar of Iran, Tehran, Iran, 10/28/2009

37. Fariba Jalili, Hussein Gharibi, Rasul Abdollah Mirzaee, Masoumeh Javaheri; Using Vulcan XC-72 and 4,4-dipyridine for deposition of Pt and investigation the performance of Gas; 3rd Full Cell seminar of Iran, Tehran, Iran, 10/28/2009

38. Hussein Gharibi, Masoumeh Javaheri, Rasul Abdollah Mirzaee; Increasing the performance of electrode by using the multi-wall carbon, 3rd Fuel cell seminar of Iran, Tehran, 10/28/2009

39. Mohammad Zhiani, Hussein Gharibi, C. Bianchini, Rezaee, Jalal Jalili; Novel Nonstructure Anode For Direct Methanol Fuel Cell (DMFC), 2nd Fuel Cell seminar of Iran. Tehran, Iran, 2010

40. Hussein Gharibi, Masoumeh Javaheria, Rasul Abdullah Mirzaie, Seyedeh Masumeh Alavi, Optimization of the Amount of Nafion in Multiwalled Carbon Nanotubes (MWCNT)/Nafion Composite as a Pt, 216th Electrochemical Society (ECS) Meeting Vienna, Austria October, 200

41. Hussein Gharibi, Ahmad Heydari, M.Javaheri , M.Zhiani, Synthesis of Pt Nanoparticles on the Vulcan XC-72 Using EDTA-2Na and Various Binary Solvents for. , 216th Electrochemical Society (ECS) Meeting Vienna, Austria October, 2009

42. Jamal Kake Mam, Soheila Javadin Farzaneh, Morad Abdollahi, Hussein Gharibi; The effect of tail, head and counter ion on the interaction of mixed surfactant; 5th Electrochemistry seminar of Iran, Tarbiat Modares University, Tehran, Iran, 2010

43. Ali Yusefi, Soheila Javadian Farzaneh, Hussein Gharibi; The solvophobic (co-solvent) effect on intermolecular interactions of cationic and anionic mixed surfactant; 5th Electrochemistry seminar of Iran, Tarbiat Modares University, Tehran, Iran, 2010

44. Mehdi Kheirmand, Seyed Mohammad Azami, Hussein Gharibi, Elyas Shams; Study of Adsoption of Oxygen on Nano Cluster of Pt for ORR in PEM; 5th Electrochemistry seminar of Iran, Tarbiat Modares University, Tehran, Iran, 2010

45. Mehdi Kheirmand, Seyed Mohammad Azami, Hussein Gharibi, Elyas Shams; Stdudy of proton

Transfer for ORR at PEM; 5th Electrochemistry seminar of Iran, Tarbiat Modares University, Tehran, Iran, 2010

46. Marjan Haj Alimohammadi, Soheila Javadian Farzaneh, Hussein Gharibi, Alireza Tehrani Bagha; Investigation of Surface Specification and aggregation of Gemini/Triton X-100; Marjan Hajalimohammadi, Soheila Javadian, Hussein Gharibi ; 5th Electrochemistry seminar of Iran, Tarbiat Modares University, Tehran, Iran, 2010

47. Marjan Haj Alimohammadi, Soheila Javadian Farzaneh, Hussein Gharibi, Alireza Tehrani Bagha; Thermodynamic Study of Gemini Surfactant; 5th Electrochemistry seminar of Iran, Tarbiat Modares University, Tehran, Iran, 2010

48. Hussein Gharibi, Farhad Golmohammadi, Soheila Javadian Farzaneh; Ethylene Glycol effect on interfacial properties of binary mixtures of cationic and anionic surfactants; 5th Electrochemistry seminar of Iran, Tarbiat Modares University, Tehran, Iran, 2010

49. Karim Kakaei, Hussein Gharibi, Rasul Abdollah Mirzaee; Platinum/Vulcan polyaniline doped trifluoromethane sulfonicelectrodes and their electrocatalytic activity for; 5th Electrochemistry seminar of Iran, Tarbiat Modares University, Tehran, Iran, 2010

50. M. Razavizadeh, Hussein Gharibi, Determination of Binding constant of Cationic/Nonionic micelle, 5th Electrochemistry Seminar of Iran; Tehran, Iran; 2010

51. Masoumeh Javaheri, Hussein Gharibi, Rasul Abdollah Mirzaee; Optimization of the amount of Nafion in MWCNT/Nafion composite as a Pt support in GDE of PEMFC; 5th Electrochemistry seminar of Iran, Tarbiat Modares University, Tehran, Iran, 2010

52. Masoumeh Javaheri, Hussein Gharibi, Rasul Abdollah Mirzaee; Study of synergism effect between Multiwall carbon nanotubes and Vulcan XC-72 at micro porous layer; 5th Electrochemistry seminar of Iran, Tarbiat Modares University, Tehran, Iran, 2010

53. Ahmad Heydari, Hussein Gharibi, Mohammad Zhiani, Seyed Masoud Ghari Ghoran; Dispersion of Pt nanoparticles on to the Vulcan XC-72 using different solvents for development of PEM fuel; 5th Electrochemistry seminar of Iran, Tarbiat Modares University, Tehran, Iran, 2010

54. Hussein Gharibi, Seyed Masoud Ghari Ghoran, Ahmad Heydari; Preparation of Pt/C as a catalyst for PEMFC Stabilized by Ethylenediaminetetraacetic Acid; Second fuel cell seminar of Iran, Tehran, Khaje Nasir University, Tehran, Iran, 2008

55. Hussein Gharibi, Seyed Masoud Ghari Ghoran, Ahmad Heydari; Preparation of Pt/C catalyst using reverse micelle method for oxygen reduction; Second fuel cell seminar of Iran, Tehran, Khaje Nasir University, Tehran, Iran, 2008

56. Mohammad Zhiani, C. Bianchini, Hussein Gharibi; Monitoring of the Anode Dry out at High Current Density in H<sub>2</sub>/O<sub>2</sub> and H<sub>2</sub>/air; Second fuel cell seminar of Iran, Tehran, Khaje Nasir University, Tehran, Iran, 2008

57. Monireh Faraji, Hussein Gharibi, Rasul Abdollah Mirzaee, Mahdi Kheyrmand, Masoumeh Javaheri, Mohammad Zhiani; Study of gas diffusion electrode by using platinum nano particle

and nafion; Second fuel cell seminar of Iran, Tehran, Khaje Nasir University, Tehran, Iran, 2008

58. Rasul Abdollah Mirzaee, Hussein Gharibi, Elahe Lohrasbi; Study of Dielectric Constant effects on preparation conditions of gas diffusion; Second fuel cell seminar of Iran, Tehran, Khaje Nasir University, Tehran, Iran, 2008

59. Karim Kakaei, Hussein Gharibi, Mohammad Zhiani, Rasul Abdollah Mirzaee, Masoumeh Javaheri; Preparation of New GDE based on polyaniline in oxygen reduction reaction for; Second fuel cell seminar of Iran, Tehran, Khaje Nasir University, Tehran, Iran, 2008

60. Masoumeh Javaheri, Hussein Gharibi, Rasul Abdollah Mirzaee, Mahdi Kheyrmand, Monireh Faraji, Karim Kakaei; Studying of synergism effect between Multi-wall carbon nanotube and Vulcan; Second fuel cell seminar of Iran, Tehran, Khaje Nasir University, Tehran, Iran, 2008

61. Beheshteh Sohrabi, Hussein Gharibi, Majid Hashemianzadeh, Sohiela Javadian; The Study of Interaction and Interfacial Parameters in Ionic Surfactants Mixture" 9th International Hydrocolloids Conference (9th IHC) Sigapor; 15 to 19 June 2008 .

62. Beheshteh Sohrabi, Hussein Gharibi, Majid Hashemianzadeh, Sohiela Javadian; The Study of Interaction and Interfacial Parameters in Ionic Surfactants Mixture" 9th International Hydrocolloids Conference (9th IHC), Sigapor; 15 to 19 June 2008 .

63. Mohammad Alavijeh Rashidi, Soheyla Javadian Farzaneh, Hussein Gharibi, Marjan Haj Alimohammadi, Mahmoud Abdolahi, Bagha Tehrani, Adsorption and micellar properties of binary surfactant mixture of cationic monomeric and dimeric (Gimini), 22nd Conference of the European Colloid and Interface Society , Cracow, Poland, August 2008

64. Marjan Haj Alimohammadi, Soheila Javadian Farzaneh, Hussein Gharibi, Bagha Tehrani, Temperature effect on the micellization and interfacial properties of Gimini surfactant: Enthalpy , 22nd Conference of the European Colloid and Interface Society , Cracow, Poland, August 2008

65. Beheshteh Sohrabi, Hussein Gharibi, Soheyla Javadian, Seyed Madjid Hashemianzadeh, The investigation of the polymer effect on the properties of nanostructures and microstructures in ionic surfactants mixture; 22nd Conference of the Europeans Colloid and Interface Society , Cracow, Poland, August 2008

66. Hussein Gharibi, Rasul Abdollah Mirzaee, Elahe Lohrasbi, Mahdi Kheyrmand, Mohammad Zhiani, Study of dielectric constant effects on preparation conditions of gas diffusion electrodes for Oxygen reduction, tenth grove fuel cell symposium, London, U.K, 2007

67. Hussein Gharibi, Rasul Abdollah Mirzaee, Sakineh Chaabi, Mahdi Kheyrmand, Mohammad Zhiani, Introducing new method for fabrication of gas diffusion electrode based on Pt-coated Nafion membrane, tenth grove fuel cell symposium, London, U.K, 2007

68. Z. bromand , Hussein Gharibi, S.javadian , - Electrolyte effect on thermodynamic parameter in ionic solution of mixed ionic and non ionic surfactant, 10th Iranain physical chemistry seminar, Isfahan University, Isfahan, Iran, 2006

69. Hussein Gharibi, Rasul Abdollah Mirzaei, Elaheh Sohrabi, Mehdi Kheirman; Effect of organic solvent on the performance of GDE in ORR; The conference of Analytical Chemistry of Iran, , Shiraz, Iran, 2006
70. B.Sohrabi, Hussein Gharibi, S. javadian , The phase diagram of mixed anionic/cationic surfactant system: transition from micro structure to nano structure', Australian Colloid and Interface Symposium, Sydney, Australia, 2008
71. S.javadian, Hussein Gharibi, B.Sohrabi,Determination of the physico-chemical parameters and aggregation number of surfactant in micelles in binary alcohol-water mixtures using PFG-NMR and potentiometry techniques; Australlian Colloid and Interface Symposium, Sydney, Australia, 2008
72. Sakineh Chabi, Husein Gharibi; Electrocatalysis of oxygen reduction reaction on Nafion/platinum/gas diffusion layer electrode for PEM fuel cell, The first conference of Nano technology at south of Iran, Shiraz, Iran, 2006
73. Hussein Gharibi, Mohammad Zhiani, Mahdi Kheyrmand, Reza Kakaee, Ghasem Nejad Heydari, Rasul Abdollah Mirzaei, Amir Abbas Entezami,Determination of optimal operation conditions in Polymer electrolyte fuelcells (PEMFCs), 7 th Physical Chemistry Seminar, Isfahan, Iran, 2005.
74. Hussein Gharibi, Mohammad Zhiani, Mehdi Kheirmand, Karim Kakaee, Ahmad Heydari, Rasul Abdollah Mirzaei, Ali Akbar Entezami, Electrochemical investigation of novel membrane-electrode assembly (MEA) Nanostructure in polymer electrolyte, 6th Biennial Electrochemistry seminar, Iran
75. Hussein Gharibi, R.A.Mirzaie, M.Kheirmand ,M.Zhiani ,M.Javaheri, A.A.Entezami ,K.Kakaee, Investgation of Polyaniline impregnation of the performance of gas diffusion electrode (GDE) , Journal of Power Sources,2006
76. Hussein Gharibi, S.javadian, B.Sohrabi , A new approach to study of phase transition from microstructure to nanostructure in ionic/ ionic surfactant mixture, 9th Electrochemistry Seminar of Iran, Ziba kenar, Iran, 2006
77. Hussein Gharibi, S.javadian, B.Sohrabi , Determination of physico- chemical parameters and Aggregation Number of Surfactant in Micelles in Binary solvent, 9th Electrochemistry Seminar of Iran, Ziba Kenar, Iran, 2006
78. Hussein Gharibi, R.A.Mirzaie , M.Kheirmand , M.Zhiani , M. Javaheri , The Study of oxygen reduction at platinum/ Nafion and polyaniline interface in gas diffusion electrodes, 9th Electrochemistry Seminar of Iran, Ziba Kenar, Iran, 2006
79. Mohammad Zhiani, Hussein Gharibi, Ahmad Heydari, Bianchini , Ali Akbar Entezami, Mehdi Kheyrmand, Rasul Abdollah Mirzaee, Karim Kakaee, Optimization of Nafion content in polyaniline modified gas diffusion electrodes for PEMFC, Fuel cells science and technology 2006, Turin, Italy, 2006
80. Hussein Gharibi, Mehdi Rezaei Sameti, Amir Abbas Rafati, Ilukhani, Electrochemical study of



interaction of sodium dodecyl sulphate (SDS) With bovine serum albumin (BSA), 6th Biennial Electrochemistry Seminar of Iran (6BESI), 7-9, Hamada, Iran, 2005

81. Hussein Gharibi, Heydari, Mohammad Zhiani, Mehdi Kheirmand, Karim Kakaee, Rasul Abdollah Mirzaee, Optimization on Nafion content in Polyaniline modified gas diffusion electrode for oxygen reduction, 6th Biennial Electrochemistry Seminar of Iran (6BESI), 7-9, Hamada, Iran, 2005

82. Hussein Gharibi, Heydari, Mohammad Zhiani, Mehdi Kheirmand, Karim Kakaee, Effect of positive potentials on Performance of platinum-modified polyaniline electrode in oxygen, 6th Biennial Electrochemistry Seminar of Iran (6BESI), 7-9, Hamada, Iran, 2005

83. Hussein Gharibi, Mohammad Zhiani, Mehdi Kheirmand, Karim Kakaee, Rasul Abdollah Mirzaei, Ali Akbar Entezami, AComparative study on polyaniline modified cathodes in PEMFC , 2nd International Conference on Polymer Batteries and Fuel Cells, Las Vegas, USA, 2005

84. Hussein Gharibi, Beheshteh Sohrabi, Soheyla Javadian, Study of phase transition from vesicle to mixed micelle in cationic mixtures and determination of... , 7th Physical Chemistry Seminar, Isfahan, Iran, 2005

85. Hussein Gharibi, Beheshteh Sohrabi, Soheila Javadian;, Study of the electrostatic and steric contributions to the free Energy of ioic/noionoionic mixed micelle, 7th Physical Chemistry Seminar, Isfahan, Iran, 2005

86. Hussein Gharibi, Mohammad Zhiani, Mehdi Kheirmand, Kakaee, Ali Akbar Entezami, Preparation and characterization of New gas diffusion electrode based on conductive polymer in oxygen, 7th Physical Chemistry Seminar, Isfahan, Iran, 2005

87. Hussein Gharibi, Heydari, Kheirmand, Kakaee, Rasul Abdollah Mirzae, Amir Abbas Entezami, High performance GDE for PEMFCs, 207th Meeting of electrochem, Canada, 2005

88. Hussein Gharibi, S.javadian , B.Sohrabi , R.Behjatmanesh , Study of polyaniuline doped with trifluoromeethane sulfonic acid in gas diffusion electrodes for proton, Journal of Power Sources 2005

89. Rasoul Abdollah Mirzai, Hussein Gharibi, The effed of platinum content on oxygen reduction kinetics at GDE, The 5th Conference of Physical Chemistry, Persian Gulf University; Jan. Boshehr, Iran, 2002

90. Hussein Gharibi, Soheila Javadian, Beheshteh Sohrabi, Masumeh Anvari, Electromotive forca studies assouiated with the binding CTAB to HSA in Mixed solvent (Water and ), The 5th Conference of Physical Chemistry,Persian Gulf Universit Jan. Boshehr, Iran, 2002

91. Hussein Gharibi, Beheshteh Sohrabi, Soheila Javadian, Bibimarzieh Razavizadeh, Electromotive force studies associated with the binding of n-alky trimethyl ammonium bromide (n=14), The 5th Conference of Physical Chemistry,Persian Gulf University; Jan. Boshehr, Iran, 2002

92. Nahid Shirvani, Hussein Gharibi, Elyas Shams, Rasul Abdollah Mirzaei; Investigation of carbon

support of catalyst layer on the efficiency of fuel cell; First fuel cell seminar of Iran, Sharif university, Tehran, Iran, 2001.

93. S. Mehdi Golabi, Hussein Gharibi, Rasul Abdollah Mirzaei, Zahra Abdollah Mirzaei; Consideration of the effect of the amount Nafion on the reaction layer at the cathode of GDE; First fuel cell seminar of Iran, Sharif university, Tehran, Iran, 2001.

94. Mohammad Zhiani, Hussein Gharibi, Ali Akbar Entezami; Fabrication of GDE using conductive polymer and its evaluation in PEM; First fuel cell seminar of Iran, Sharif university, Tehran, Iran, 2001.

95. Mohammad Zhieni, Hussein Gharibi, Ali Akbar Entezami; Preparation of Composite film of Nafion/PANI/Pt for application in PEM; First fuel cell seminar of Iran, Sharif university, Tehran, Iran, 2001.

96. Mohammad Zhiani, Hussein Gharibi, Ali Akbar Entezami; Design and Fabrication of Phosphoric Acid Fuel cell in Small Scale; First fuel cell seminar of Iran, Sharif university, Tehran, Iran, 2001.

97. Hussein Gharib;, Analysis of development of fuel cell at national and international level; First fuel cell seminar of Iran, Sharif university, Tehran, Iran, 2001.

98. Hussein Gharibi, Mehdi Kheirmand, Rasul Abdollah Mirzaei; The improvement of electrolyte of phosphoric acid fuel cell by increasing the solubility of Oxygen; First fuel cell seminar of Iran, Sharif university, Tehran, Iran, 2001.

99. Setareh Arshadi, Hussein Gharibi, Mohammad Ali Safarpour, Rasul Abdollah Mirzaei, The effect of temperature of sintering of GDE on ORR, First fuel cell seminar of Iran, Sharif university, Tehran, Iran, 2001.

100. Hussein Gharibi, Beheshteh Sohrabi, The study of the phase behavior of the ternary system, water/alcohol /SDS by NMR Technique, The 5th Conference of Physical Chemistry, Persian Gulf University; Jan. Boshehr, Iran, 2002

101. S. Mehdi Golabi, Hussein Gharibi, Rasul Abdollah Mirzaei, Mehdi Kheirmand; study of the effect of the composition of reaction layer of GDE on ORR, First fuel cell seminar of Iran, Sharif university, Tehran, Iran, 2001.

102. Hassan Mahmoodi, Hussein Gharibi, Aliakbar Entezami, Rasul Abdollah Mirzaei, Preparation of electrocatalyst coated on polyacrylonitrile for ORR; First fuel cell seminar of Iran, Sharif university, Tehran, Iran, 2001.

103. Hussein Gharibi, Rasul Abdollah Mirzaei, Mehdi Kheirmand, Zahra Abdollah Mirzaei, The effect of compression on fabrication of gas diffusion electrode of PEM fuel cell, First National Conference of Battery, University of Science and Technology of Iran, Tehran, Iran, 2001.

104. Hussein Gharibi, Rasul Abdollah Mirzaei, Mehdi Kheirmand, Zahra Abdollah Mirzaei, The effect of compression on fabrication of gas diffusion electrode in PEM fuel cell, First conference of battery, University of Science & Technology, Tehran, Iran, 2002.

105. Rasul Abdolla Mirzaei , Hussein Gharibi, Study of electrochemical properties of gas diffusion electrode, 4th physical chemistry seminar, Kish, Iran, 10-12 March, 2001
106. A.A. Rafati, Hussein Gharibi, A.K. Brdbar, M.A. .Safarpour, Study on interaction of a homogenous series of cationic surfactants with BSA using the surfactant membrane, 4th physical chemistry seminar, Kish, Iran, 10-12 March, 2001.
107. Rasul Abdolla Mirzaei , Hussein Gharibi, Preparation of electrocatalyst for fuel cell with Iranian carbon black, 4th physical chemistry seminar, Kish, Iran, 10-12 March, 2001.
108. 13th Congress of Chemistry and Chemical Engineering of Iran, Tarbiat Modares university, Tehran, Iran, 1999
109. A.A. Rafati, Hussein Gharibi, H- Illukhani , Effect of nonaqueous polar additive on micellization of CPC using conductometric technique, 4th physical chemistry seminar, Kish, Iran, 10-12 March, 2001
110. Rasul Abdollah mirzaei, Hussein Gharibi, Fabrication of gas diffusion electrode with platinum complex, 4th physical chemistry seminar, Kish, Iran, 10-12 March, 2001
111. Mahdi khairmand, Hussein Gharibi, Fabrication of gas diffusion electrode for phosphoric acid fuel cell and evaluation by three electrode standard, 4th physical chemistry seminar, Kish, Iran, 10-12 March, 2001
112. Zhiani, M , Hussein Gharibi, Construction and evaluation of gas porous Carbon electrode using polyaniline as a conductive polymer in PEM fuel cell, 4th physical chemistry seminar, Kish, Iran, 10-12 March, 2001.
113. Hussein Gharibi, Digital content development in Islamic Republic of Iran, Expert Meeting on Digital Content Development for Information Societies, Tokyo, Japan, 2001
114. Hussein Gharibi, A.A. Entezami, Mohammad Zhiani, Study of polyaniline doped with trifluoromethane sulfonic acid in gas-diffusion electrodes for PEM fuel cell, Seventh Grove Fuel Cell Symposium, September 11-13 London, England, 2001
115. Hussein Gharibi, Razavizadeh bibimarzieh, New Equations for Determination of Synergetic and Thermodynamic Parameters of Mixed Ionic/Nonionic, 14 th Canadian Symposium on Theoretical Chemistry, Carleton University, Ottawa, CANADA, 2001
116. Rasul Abdolla Mirzaei, Husein Gharibi, The role of fuel cell for generation of electricity and heat in residential area, 6th scientific seminar of chemistry students, Faculty of Chemistry, University of Tabriz, Tabriz, Iran, 2001
117. S.Z. Bathaei, A.A. (Rafati), Moosavi-Movahedi, Hussein Gharibi, A.A. Ziaee ,A.A. Sabouri , Investigation of hydrophobic effect in DNA surfactant interaction by ion selective electrode, 8th International Conference on Eletro-Analysis, 11-15 June, Bonn, Germany, 2000
118. Hussein Gharibi, Rasul Abdollah Mirzaei, Study of fuel cell system for generation of multi

type of energy, 3th Congress of energy and economy Tehran, Iran, 2000

119. Reza Behjatmanesh Ardekani, M. Razavizadeh, Hussein Gharibi, Consideration of Robing regular solution theory for mixed surfactant system, First chemistry conference of Islamic Azad University, Tehran, Iran, 2000

120. M. Razavi zadeh, Hussein Gharibi, Electrochemical Sdudies of Mixed Ctab and TritonX100, 3th Biennial of Electrochemistry of Iran, Babolsar, Iran, 1999.

121. Hussein Gharibi, Rasul Abdollah Mirzaei, Gholamreza Moghadam, Fabrication of Phosphoric Acid Fuel Cell, 13th Congress of Chemistry and Chemical Engineering of Iran, Tarbiat Modares university, Tehran, Iran, 1999

122. Zahra Bataie, Hussein Gharibi, Ali Akbar Mousavi Movahedi, Study of thermodynamic mechanisem of interaction of DNA with surfactant, 13th Congress of Chemistry and Chemical Engineering of Iran, Tarbiat Modares university, Tehran, Iran, 1999

123. Hussein Gharibi, Behrooz Zarei, Sinmulation of budgeting accumulation, FID 49th conference and Congress, 11-17 October 1998, New Delhi, India

124. M. Razavizadeh, Hussein Gharibi, Study the process of Micellization of Mixed Cationic and Non-ionic surfactant, 13th Congress of Chemistry and Chemical Engineering of Iran, Tarbiat Modares university, Tehran, Iran, 1999

125. Hussein Gharibi, Sohaila Javadian, Farhad Golmohammadi, Hajar Fallah, Morad Abdollahi, Mixed micellization of CTAB and Triton X100 in water ethylene glycol mixtures, Surfactant and detergent technology conference, Tehran Iran, 1997

126. Hussein Gharibi, Sohaila Javadian, Farhad Golmohammadi, Hajar Fallah, Morad Abdollahi, The physico-chemical properties of surfactant glycol-water mixtures, Surfactant and detergent technology conference, Tehran Iran, 1997.

127. Mohammad Ali Safarpour, Hussein Gharibi, Study of Binding of ligand to Macromolecule by Mathematical Model, 36th IUPAC Congress, Geneva, Switzerland, 1997.

128. Hussein Gharibi, Mojtaba Shamsipour, Nader Alizadeh, Parvin Mousavi, Electrochemical Study of micellization of HDPB in the presence of Crown ether, The Second Biennial Electrochemistry Seminar of Iran, Tabriz, Iran, 1998.

129. Hussein Gharibi, Mohammad Ali Safapour, Investigation of new technique for determination of ionic Surfactant Aggregation number using potentiometric method, The Second Biennial Electrochemistry Seminar of Iran, Tabriz, Iran, 1998.

130. Hussein Gharibi, Saifollah Jalili, Using ISE, 3th Physical Chemistry Seminar, Mashhad, Iran, 1996.

131. Mohammad Ali Safarpour, Hussein Gharibi, Thermodynamic Study of the process of micellization in two and three component system using potentiometric Technique, The Second Biennial Electrochemistry Seminar of Iran, Tabriz, Iran, 1998.

132. Abbas Rafati, Mohammad Ali Safarpour, Hussein Gharibi, M. Razavizadeh, Mehdi Rezaie Samati, The Electrochemical Study of the process of micellization of Ionic Surfactant in Polar Non-Aqueous Solvent, The Second Biennial Electrochemistry Seminar of Iran, Tabriz, Iran, 1998.
133. Hussein Gharibi, The role of information Science for the Development of Chemical Science in Iran, The Second Biennial Electrochemistry Seminar of Iran, Tabriz, Iran, 1998.
134. Hussein Gharibi, Abbas Rafati, MohammadAli Safarpour, Thermodynamic Study of Denaturation of BSA and HAS usin Cationic Surfactant( DOTAB, TTAB, CTAB), 11th Congress of Chemistry and Chemical Engineering, Tehran, Iran, 1997
135. Hussein Gharibi, M. Rezaei Sameti, Electrochemical studies of Micellisation of SDS in Water-Ethanol and Water-Propanol, 11th Congress of Chemistry and Chemical Engineering, Tehran, Iran, 1997
136. Hussein Gharibi, Mohammad Ali Safarpour, Abbas Rafati, Adsorbtion of Ligand to Macromolecules using a Mathematical methods, 11th Congress of Chemistry and Chemical Engineering, Tehran, Iran, 1997
137. Hussein Gharibi, Mohammad Ali Safarpour, Saifollah Jalili, Thermodynamic Studdies of Interaction of CTAB with Cyclodextrin in Aqeous Solution, 11th Congress of Chemistry and Chemical Engineering, Tehran, Iran, 1997
138. Hussein Gharibi, Seyamak Rajabi, Thermodynamic of Micellar system in Mixed Aqueous-nonageous and Non-aqueous solution and Interaction of HDPB with Cyclodexterin, Second Physical Chemistry Seminar, Isfahan, Iran, 1995
139. Hussein Gharibi, Marzieh Razavizadeh, Electrochemical Study of DOTAB in Non Aqueous Solution, 1995, The first binomial seminar of Electrochemistry, University of Khajeh-Nasir, Tehran, Iran
140. Hussein Gharibi,Aziz Faizollahi, Interaction of Cationic Surfactant with PVP using Potentiometric Technique, Second Physical Chemistry Seminar, Isfahan, Iran, 1995.
141. B.zarie, Hussein Gharibi, Analysis of simulation in the process of establishing databases, Globalization of information: the networking information, Gratz, Austria, 1995.
142. B.zarie , Hussein Gharibi, Succssful Accomplishment of QualityAssuranceat Irandoc, Globalization of information: thenetworking information,Gratz, Austria , 1995
143. Hussein Gharibi, Rafati Abbas, Fabrication of surfactant Selective Electrode and Consideration of Physico-Chemical Parameters in Aqueous and Non-aqueous Solution. International Congress of Chemistry and Chemical Engineering, Tehran, Iran, ,1994.
144. Hussein Gharibi, A.A Rafati, B.M Razavizadeh, Interaction of Tetradecyltrimethyl Ammonium Bromide (TTAB) with BSA and Investigation of Thermodynamic XII Scandinavia Symposium on Surface Chemistry, Helsinki , Finland,1994

145. Hussein Gharibi, A.A. Rafati, B.M. Razarizadch, Determination of physical parameters of DOTAB in Aqueous Mixed solvent and non-aqueous solution using Surfactant Selective Electrode, , XII Scandinavian Symposium on Surface Chemistry, Helsinki, Finland, 1994
146. Hussein Gharibi, M. Razavizadeh ,Electrochemical Study of Micellization of Cationic Surfactant in Aqueous solution and Alcohol, International Congress of Chemistry and Chemical Engineering of Iran, Tehran, Iran, ,1993
147. Hussein Gharibi, E.wyn-jones, Interaction of Polymers with Surfactant in Different Ionic Strength, XII European Conference on Chemistry of Interfaces, Lund, Sweden , 1992
148. Hussein Gharibi, Determination of fast relaxation time of surfactant, First Physical Chemistry Seminar, Tehran, Iran, 1990
149. Hussein Gharibi, E.wyn-jones, Determination Of Fast Relaxation Time Of Equilibrium studies of surfactant systems in non - aqueous solvents using ion selective electrodes, NATO Advanced Study Institute, Manchester, UK, 1988
150. Hussein Gharibi, Seyamak rajabi, Interaction of HDPB with  $\alpha$ -cyclodextrin, Tehran, Iran, 2001

#### **Current Students:**

- 1- Farhad Golmohammadi (Ph.D.)
- 2- Fatemah Yasi (Ph.D.)
- 3- Mitra amani (Ph.D.)
- 4- Monireh Faraji(Ph.D.)
- 5- Zahra Khodadadi (Ph.D.)
- 6- Mohammad Saadatinasab (Ph. D.)
- 7- Ahmad Heydari (Ph. D.)
- 8- Sadegh Sadeghi (Ph. D.)
- 9- Maryam Azimzadeh (Ph.D.)
- 10- Hamideh Kashani (Ph.D.)

**PhD and MSc student graduated under my superviosn from the department of Chemistry in Tarbiat Modares University, Tehran, Iran During 1993-2010:**

- 2) Study on Interaction of Heme Complex With Super-Molecules of Surfactant and Protein: As Artificial Enzymes By: Zainab Moosavi-Movahedi, **Ph.D. Thesis September 2011**

- 3) The effect of cerium oxide nanoparticles on Pt-Sn electrocatalyst for developmet of DMFC and PEM, By Mahboobeh HamedanianMahboobeh Hamedanian, [M.Sc. Thesis, May, 2011](#)
- 4) Synthesis of platinum nanoparticles in the two phase systems and it's application in the catalyst layer of Polymer electrolyte membrane fuel cells, By: Mohammad Mohammadi taghiabadi, [M.Sc. Thesis, November, 2010](#)
- 5) Investigation of the Effect of In Situ One-Step Method for Dispersion of Nano Particle of Pt on Binary of MWNT/Vulcan XC-72R at Gas Diffusion Electrode: By Fariba Jalili,[M.Sc. Thesis, April 2010](#)
- 6) Consideration of synergism effect of carbon nanotube in electrocatalyst layer of proton exchange membrane fuel cell By: Masoumeh Javaheri, [Ph.D. Thesis, May 2009](#)
- 7) Controlling the dispersion of nano particle of platinum on Vulcan through the reduction of Pt using EDTA By: Ahmad Hydari, [M.Sc. Thesis, March 2009](#)
- 8) Synthesis of nano particle of platinum for PEM using surfactant materials by: Masoud Gharighoran, [M.Sc. Thesis, Mrach 2009](#)
- 9) Study of co- solvent (H2O-EG) effect on development of mixed anionic and cationic Surfactants. by: Farhad Golmohammadi, [M.Sc. Thesis, February 2008](#)
- 10) Investigation of Nano-Structure of membrane electrode assembly (MEA) by using electroless method for increasing the rate of oxygen reduction reaction (ORR) in PEM fuel cell.by: Sacineh Chaebi, [M.Sc. Thesis, January 2007](#)
- 11) Study of physico chemical properties of mixed ionic-noninoic surfactant.by: Zahra Boroomand, [M.Sc. Thesis, February 2007](#)
- 12) Construction of gas diffusion electrode of PEM fuel cell in the presence of various organic solvents to increase the dispersion of nano Pt particle on Vulcan .by: Elahe Lohrasbi, [M.Sc. Thesis, January 2007](#)
- 13) Studding of Synergism Effect of poly aniline with Vulcan for fabrication of PEM gas diffusion Electrods. by: Monireh Faraji, [M.Sc. Thesis, February2006](#)
- 14) The Study of Efficiency of Gas Diffusion Electrode for Proton Exchange Membrane Fuel Cell.by: Mehdi Kheirmand, [Ph.D. Thesis, Dec 2006](#)
- 15) Study of Surfactant in mixed solvent using Monte Carlo simulation method. by: S.Morteza K.Mousavi, [Ph.D. Thesis, November 2006](#)
- 16) Preparation and Evaluation of modified gas diffusion electrodes in Oxygen reduction reaction.by: Hussein Ali Heydari, [M.Sc. Thesis, 2006](#)
- 17) Design and Construction of Novel membrane Electrode Assembly Nanostructure in Polymer Electrolyte Fuel cell & Characterization of Physico-Chemical Properties Using Electrochemical and Spectroscopic Techniques. By: Mohamad Zhiani, [Ph.D. Thesis, 2005](#)



- 18) Investigation of Interaction of Surfactants with Macromolecule.by: Reza Behjatmanesh-Ardakani, [Ph.D. Thesis, 2005](#)
- 19) Investigation of phase diagram of mixture of Surfactants in aqueous solutions.by: Beheshteh Sohrabi Nazari, [Ph.D. Thesis, 2005](#)
- 20) Optimization of PTFE on performance of modified gas diffusion electrode for polymer electrolyte fuel cell.by: Karim Kakaei, [M.Sc. Thesis, 2005](#)
- 21) New Approach in Fabrication and Modification of GasDiffusion Electrode For polymer electrolyte membrane fuel cell.by: Mohammad Ranjdost Niarag, [M.Sc. Thesis, 2004](#)
- 22) Study of synergism effect of mixed carbon with various surface area to increase the performance of gas diffusion Electrode in PEM fuel cell.by: Rasol Abdullah Mirzaeie, [Ph.D. Thesis, 2003](#)
- 23) Investigation of crystal structure and electrochemical behavior Pt/AB and Pt-Ru/AB on ORR and it's application in polymer Electrolyte fuel cell.by: Maryam Riyazy Mobaraki, [M.Sc. Thesis, 2003](#)
- 24) Investigation of Interaction of Ionic and Nonionic Surfactant Mixtures and Determination Of Aggregation Number.by: Soheila Javadian Farezaneh, [Ph.D. Thesis, 2003](#)
- 25) Investigation of Polyacrylonitrile as a support for fabrication of gas diffusion electrode in PEM fuel cell.by: Hassan Mahmoodi, [M.Sc. Thesis, 2002](#)
- 26) Investigation of fabrication of platinum electrocatalyst using Iranian carbon Black as a support in PEM fuel cells.by: Elias Shams, [M.Sc. Thesis, 2002](#)
- 27) Investigation of Monte Carlo Simulation in Surfactant system.by: S.M.Hashemianzadeh, [Ph.D. Thesis, 2001](#)
- 28) Consideration of Phosphoric Acid Fuel Cell Through Improving Electrolyte and Gas Diffusion Electrode.by: Mehdi Khermand, [M.Sc. Thesis, Winter 2001](#)
- 29) Investigation of ionic strength effect on physico-chemical Parameters of mixed surfactant solutions.by: Feryal Safinejad, [M.Sc. Thesis, 2001](#)
- 30) Study of synergitic parameter in mixed surfactant Solution.by: Reza Behjatmanesh, [M.Sc. Thesis, 2000](#)
- 31) Study of fabrication of gas diffusion electrodes and evaluation of it 's physical and electrochemical characteristics.by: Setareh Arshadi, [M.Sc. Thesis, 2000](#)
- 32) The Study of Physico- Chemical Parameters Of Ionic/Nonionic Mixed Surfactant Systems.by: B.B.Marzieh Razavizadeh, [Ph.D. Thesis, 2000](#)
- 33) Study of Platinum Coating on Carbon Surface.by: Nahid Shirvani, [M.Sc. Thesis, 2000](#)

- 34) Design and Construction of Phosphoric Acid Fuel Cell Using Modified Conductive Polymer Gas Diffusion Electrode.by: Mohammad Zhiani, [M.Sc. Thesis, 2000](#)
- 35) Physico - Chemical Study of Multicomponent Systems of (Water - Alcohol - Surfactants) and (Water - Protein - Surfactants). By: A.A.Rafati, [Ph.D. Thesis, 1999](#)
- 36) Physico- Chemical Study of Surfactants in the Presence of Alcohol (EtOH & 1- PrOH) and Macromolecule (HAS,BSA & STS). By: M.A.Safarpour, [Ph.D. Thesis, 1999](#)
- 37) Study of fabrication of phosphoric acid fuel cell. By: R.A.Mirzaiy, [M.Sc. Thesis, 1998](#)
- 38) The study of Interaction Between Cationic Surfactants (CTAB and DOTAB) and Biological Macromolecules (HAS) in Non Aquoues Polar Solvents. By: M. Anvari, [M.Sc. Thesis, 1997](#)
- 39) <sup>1</sup>H-NMR Study of the Exchange Kinetics of Macrocyclic Complexes with Some Metal Ions in Nonaqueous Solution II - Electrochemical study of the Micellization of Hexadecylpyridinium Bromide. As a advisor by: Naader Alizade Motlagh, [Ph.D. Thesis, 1996](#)
- 40) Physico - Chemical Studies on the Structure of Hemoglobin by Ionic Surfactants and Sulphydryl Reagents.by: Abdoulkhalegh Bordbar, [Ph.D. Thesis, as a advisor july 1996](#)
- 41) Thermodynamic study of micellar systems in aqueous, mixed and non-aqueous media and interactions between cetylpyridinium bromide (CPB) and both  $\alpha$  - and  $\beta$  - cyclodextrins. By: Taghi Rajabi, [M.Sc. Thesis, 1995](#)
- 42) Study of thermodynamic of cationic surfactant in mixed solvent and investigation of interaction of Cationic surfactant with BSA and PVP, By: Aziz Faizollahi, [M.Sc. Thesis, 1995](#)
- 43) Fabrication of surfactant selective electrode and determination of physico-chemical parameters of DOTAB in aqueous and non-aqueous solvent, BY: Bibi-Marzeiyeh Razavizadeh, [M.Sc. Thesis, 1993](#)
- 44) Study of thermodynamic of micelles and interaction of Tetradecyl trimethyl ammonium bromide with BSA ( Bovine Serium Albumin) By: Abas-Ali Rafati, 1993
- 45) Study of heavy metals in Talab Anzali using Atomic absorption and Gas chromatography instrument. By: Rasoul Nowroz-Asl, [M.Sc. Thesis, 1993](#)
- 46) Extraction of salts from Urumiyeh using crystallization method, Reza Emam-ali Sabzi, [M.Sc. Thesis, 1992](#)

