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

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**Chairman of the Department of Chemistry, 4 years**

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

- **Iranian Journal of Hydrogen & Fuel Cell ( chief editor; <https://ijhfc.irost.ir/journal/editorial.board> )**
- **Information Sciences and Technology quarterly (1993- 2008 ), 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)**

***Article Published in International journal***

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### ***Selected Papers Presented in International Conferences***

- 1- Dispersion of Pt nanoparticles onto the Vulcan XC-72 using different binary solvents for development of PEM fuel cell, H.Gharibi\*, Ahmad Heydari, M.Javaheri, M.Zhiani, 216<sup>th</sup> ElectroChemical Society meeting (ECS). 2009, Vienna, 4-9 Oct, Austria
- 2- Optimization of the Amount of Nafion in Multiwalled Carbon Nanotubes (MWCNT)/Nafion Composite as a Pt Support in GDE of PEMFC., Hussein Gharibi, Masoumeh Javaheri, Rasol Abdullah Mirzaie, 216<sup>th</sup> ElectroChemical Society meeting (ECS). 2009, Vienna, 4-9 Oct, Austria  
The Investigation of the Polymer Effect On the properties of nanostructure and microstructure in ionic surfactants mixture, 2008, Cracow, Poland
- 3- Temperature effect on the micellization and interfacial properties of Gemini surfactant: Enthalpy - Entropy compensation phenomenon, 2008, Cracow, Poland
- 4- Adsorption and micellar properties of binary surfactant mixture of cationic monomeric and dimeric (Gemini) surfactants with nonionic surfactant, 2008, Cracow, Poland
- 5- The phase diagram of a mixed and ionic/cationic surfactant system: transition from microstructure to nanostructure, 2007, Sydney, Australia
- 6- Introducing new method for fabrication of gas diffusion electrode based on Pt-coated Nafion membrane for PEMFC, 2007, London, UK
- 7- Determination of the physico-chemical parameters and aggregation number of surfactant in micelles in binary alcohol-water mixtures, Australian Colloid and Interface Symposium, 2006, Sydney, Australia
- 8- Optimization of Nafion content in polyaniline modified gas diffusion electrodes for PEMFC, Fuel cells science and technology 2006, Turin, Italy
- 9- Study of dielectric constant effects on preparation conditions of gas diffusion electrodes for Oxygen reduction reaction, 2007, London, UK
- 10- High performance GDE for PEMFCs, H. Gharibi, Heidari, M.Zhiani, M. Kheirmand, K. Kakaei, R.A.Mirzaee, A.A.Entezami, 207<sup>th</sup> Meeting of Electrochem. 2005.May, Canada
- 11- A Comparative study on polyaniline modified cathodes in PEMFC Techniques, H. Gharibi, M.Zhiani, M. Kheirmand, K. Kakaei, R.A..Mirzaee, A.A.Entezami, 2<sup>nd</sup> International Conference on Polymer Batteries . . 2005 . Jun, Nevada, USA
- 12- Investigation of polyaniline impregnation on the performance of GDE in PEMFC, 9<sup>th</sup> Grove Fuel cells, 2005 Oct , London, UK, H. Gharibi, M.Zhiani, A.A.Entezami, R.A. Mirzaee, M.Kheirmand, K.Kakaei
- 13- Investigation of ORR according to the crystal structure and electrochemical behavior, H. Gharibi, M. Zhiani, M. Riazy, Scientific Advances in Fuel Cell Systems. 2004 Oct. 6-7, Munich, Germany
- 14- The Study of Concentration Polarization of Oxygen Reduction Reaction at Gas Diffusion Electrode in the presence of Synergism Effect, H. Gharibi, , R.A.Mirzaee, The Eighth Grove Fuel Cell Symposium. London. UK, 2003 Sep. 24-26
- 15- Fabrication of Gas diffusion electrodes at various pressures and investigation of synergetic effects of mixed electro-catalysts on oxygen reduction reaction, H. Gharibi, R.A. Mirzaee, Hydrogen and fuel cells conference and trade show. 2003 June. 8, Vancouver, Canada.
- 16- New equations for determination of synergic and thermodynamic parameters, H. Gharibi, B.M. Razavizadeh 14<sup>th</sup> Theoretical Chemistry Symposium. Canada, Karlton. Canada, 2001
- 17- Preparation and Evaluation of modified GDE using polyaniline in, H. Gharibi, M. Zheani, A.A. Entezami, Seventh Grove fuel cell symposium- 2001, London

***Ph.D. and MSc students graduated under my supervisor from  
the department of Chemistry at Tarbiat Modares, Tehran, Iran, During 1993-2022:***

- 1) The effect of microstructure of cathode catalyst layer based on MOF on polymer electrolyte fuel cell performance, Mitra Teimouri Khabazi, M.Sc. Thesis, January 2023
- 2) Optimizing the operating conditions of PEMFC with MOF-based cathode, Saeid Banazadeh Ahari, M.Sc. Thesis, Feb. 2023
- 3) Synthesis, characterization, and study of electrocatalytic properties of carbon nanomaterials-metal organic frameworks composite for the oxygen reduction reaction at a fuel-cell cathode, Seyed Mohammad Seyed Bagheri, Ph.D. Thesis, Oct. 2022
- 4) Synthesis and Investigation of Metal-Organic Framework Composite Nanocatalyst for Application of Oxygen Reduction Reaction in Alcohol Fuel Cells, Ph.D. Thesis Fatemeh Arshadi Mashkani, December 2022
- 5) Investigation of the performance of carbon composite and SiO<sub>2</sub> as an anode in lithium-ion, Moslemi Vareki Mohammad, M.Sc. Thesis (Advisor), June 2022
- 6) Investigation of metal-organic frameworks as anode in Li batteries, Parviz Zohreh, Ph.D. Thesis (advisor), March 2022
- 7) Investigation of manganese-nickel oxide composite with N-graphene oxide as cathode in magnesium-ion Batteries, Zienodiny Ali, M.Sc Thesis (advisor), February 2022
- 8) Creating nanostructured coating on carbon steel surface by anodizing method to increase corrosion resistance, Mosayebnia, Fatemeh, M.Sc. January 2022
- 9) Optimization of magnesium alloys coating processed by plasma electrolytic oxidation and the electrolytic method, Pouryaghoub Fatemeh, M.Sc Thesis, January 2022
- 10) Aluminum electro coloring using various sulfate salts and their influence on corrosion resistance of aluminum, Karimi Maryam, M.Sc. Thesis, January 2022
- 11) Synthesis and evaluation of N-doped carbon/a-MnO<sub>2</sub> nano-composite as oxygen reduction and evolution reactions electro-catalyst in Li-O<sub>2</sub> batteries, Sabbagi Reza, M.Sc. Thesis December 2021
- 12) Study of MOF-derived carbon compounds as a support for metal-electrocatalyst for oxygen reduction reaction in fuel cells, Jafari Maryam, Ph.D. Thesis, May 2021
- 13) Construction and evaluation of abiotically glucose fuel cells: near-physiological, Saeid Barzi, Ph.D. Thesis (advisor), March 2020
- 14) Investigation of manganese/graphene compounds as cathodes for magnesium-ion batteries, Ghavam Mohammad Javad, M.Sc. Thesis (advisor), February 2020
- 15) Investigation of Tin-polymer composite as anode for lithium ion battery, Bayat Elaheh, M.Sc. Thesis (advisor), February 2020
- 16) Evaluation of BiVO<sub>4</sub> performance as a photoanode in PEC cell for water split, Pourmansour Moein, M.Sc. Thesis, July 2019
- 17) Thesis title: Fabrication and evaluation of Ni-based nano catalyst on hybrid graphite/graphen, support for hydrogen evolution reaction in anion exchange membrane water electrolyzer, Fariba Jalili, Ph.D. Thesis (advisor), June 2019

- 18) The study of performance of polymeric binders in lithium ion batteries anode, Heidari kelestari Fatemeh, M.Sc. Thesis (advisor), March 2019
- 19) Optimization of dispersing of SiC particles in aqueous electrolytes using surfactant for the application in composite coatings, Kheirieh Mehra, M.Sc. February 2019
- 20) Investigation of two-dimensional structures of Graphene and Phosphorene as an anode for Alkali metal-ion battery, Atashzar Seyyed Mahdi, Ph.D. Thesis, February 2019
- 21) Adsorption calculating of sodium ion on some nanostructures as anode for Na- ion batteries by using density functional theory (DFT) method, Nasrollahpour Mokhtar, M.Sc. Thesis ( advisor), February 2018
- 22) The study of fabrication methods and modification of TiO<sub>2</sub> photoanodes for water splitting reaction, Taghipour Samaneh, M.Sc., February 2018
- 23) Synthesis and Characterization of Pd-based alloys as Highly Active Electro-catalysts for Oxygen Reduction Reaction in Passive Direct Methanol Fuel Cells, Dehghani Sanij Fereshteh, Ph.D. Thesis, January 2018
- 24) Synthesis of Nano composite Titanium Oxide and a Transition metal oxide as Anode Materials for Li-Ion Batteries., Kashani Hamideh, October 2017
- 25) An investigation performance Sn/ Graphene composite as anode in lithium-ion battery, Rezaee Varmazyar Fahimeh, M.Sc. Thesis (advisor), June 2017
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- 27) Investigation of Metal- Organic Frameworks Activity as the Electro-catalysts for Oxygen Reduction Reaction in Fuel Cells, Roostayi Masoud, May 2017
- 28) Study of optimized TiO<sub>2</sub> with carbon as anode of lithium - ion batteries, Afsar Peyman, M.Sc. , Spring 2017,
- 29) Investigation of the Performance of Pt alloy nanocatalysts of Various support in single Fuel cell, Heydari Ahmad, Ph.D. Thesis, April 2017
- 30) The study of performance of ionic liquids electrolyte in lithium-ion batteries, Salimi Nadem Pejman, February 2017
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- 89) Extraction of salts from Urumiyeh using crystallization method, Reza Emam-ali Sabzi, MSc Thesis, 1992

#### **Conference Paper**

- 1) Maryam jafari, Mohammad Javad Parnian, and Hussein Gharibi; Cobalt supported on N-enriched hierarchical porous carbon polyhedron derived from ZIF-8 as an effective ORR electrocatalyst in acidic medium; 16th Annual Electrochemistry Seminar of Iran; Tarbiat Modares University, Tehran, Iran, 2022.
- 2) Seddighe Kiani, Hossein Gharibi, Hamideh Kashani, Mohammad Zhiani, and Sohila Javadian; The effect of SEI layer on the electrochemical impedance by LiTFSI as additive; 16th Annual Electrochemistry Seminar of Iran; Tarbiat Modares University, Tehran, Iran, 2022.
- 3) Mitra Teimouri Khabazi, Fatemeh Arshadi, Hussein Gharibi, Mohammad Mohammadi Taghiabadi and Mohammad Zhiani; The investigation of Fe-NC\_S,CNT durability as an oxygen reduction reaction electrocatalyst; 16th Annual Electrochemistry Seminar of Iran; Tarbiat Modares University, Tehran, Iran, 2022.
- 4) Saeid Banazadeh, Hussein Gharibi, Mohammad Mohammadi Taghiabadi and Mohammad Zhiani; Evaluation of PEMFC performance with nonprecious metal electrocatalysts toward oxygen reduction reaction; 16th Annual Electrochemistry Seminar of Iran; Tarbiat Modares University, Tehran, Iran, 2022.
- 5) Zakiye Pazhand, Seyedmohammad Seyedbagheri, Reza Sabbaghi, Mohammad Mohammadi Taghiabadi, and Hussein Gharibi; Fe/Co-based metal-organic framework as electrocatalysts for lithium-oxygen batteries; 16th Annual Electrochemistry Seminar of Iran; Tarbiat Modares University, Tehran, Iran, 2022.
- 6) Hussein gharibi, Maryam karimi and Ahmad heydari; Electrochemical coloring of aluminum using different sulfate salts and their effect on corrosion resistance of aluminum; 16th Annual Electrochemistry Seminar of Iran; Tarbiat Modares University, Tehran, Iran, 2022.
- 7) Fatemeh Pouryaghoub, Hussein Gharibi, Ahmad heydari; Plasma Electrolytic Oxidation coating on E21 magnesium alloy; 16th Annual Electrochemistry Seminar of Iran; Tarbiat Modares University, Tehran, Iran, 2022.
- 8) Fatemeh Pouryaghoub, Hussein Gharibi; Magnesium coating by Plasma Electrolytic Oxidation method; 15th Annual Electrochemistry Seminar of Iran; Tarbiat Modares University, Tehran, Iran, 2020.
- 9) Fatemeh Moseybniya, Hussein Gharibi; Anodizing of stainless steel using various acidic electrolytes to increase corrosion resistance; 15th Annual Electrochemistry Seminar of Iran; Tarbiat Modares University, Tehran, Iran, 2020.
- 10) Maryam Karimi, Hussein Gharibi, Electro coloring aluminum using sulfate salts; 15th Annual Electrochemistry Seminar of Iran; Tarbiat Modares University, Tehran, Iran, 2020.
- 11) Seyedmohammad seyedbagheri, Hussein Gharibi, Synthesis of Zeolitic Imidazolate Framework (ZIF)/PPy Composite as High Activity Electrocatalysts for Oxygen Reduction Reaction in Acidic Media; 15th Annual Electrochemistry Seminar of Iran; Tarbiat Modares University, Tehran, Iran, 2020.

- 12) Reza Sabbaghi, Hussein Gharibi; Hydrothermal Synthesis and Bi-functional Electrocatalytic Activity Properties of MnO<sub>2</sub> Nanostructures; 15th Annual Electrochemistry Seminar of Iran; Tarbiat Modares University, Tehran, Iran, 2020.
- 13) Maryam Jafari, Mohammad Javad Parnian and Hussein Gharibi, Fe-based NPs/N-doped carbon materials as a efficient catalyst for oxygen reduction reaction in acidic electrolyte; 15th Annual Electrochemistry Seminar of Iran; Tarbiat Modares University, Tehran, Iran, 2020.
- 14) Maryam Jafari, Mohammad Javad Parnian and Hussein Gharibi; Developing non platinum group metal electrocatalyst for oxygen reduction reaction derived from metal-organic-frameworks precursors; 14th Annual Electrochemistry Seminar of Iran; Materials and Energy Research Center, Alborz, Iran, 2018.
- 15) Peyman Afsar, Hussein Gharibi; Investigation of Nano Composite TiO<sub>2</sub> Nanotube/rGO as Anode Materials for Li Ion Batteries; 14th Annual Electrochemistry Seminar of Iran; Materials and Energy Research Center, Alborz, Iran, 2018.
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