

CURRICULUM VITAE

Dr. Ali Ehsani



Personal Information

Date of Birth: February 06, 1977

Place of Birth: Qom, Iran

Citizenship: Iran

Marital Status: Married

Job Position: Academic staff, Assistant Professor in Physical chemistry (Electrochemistry)

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Education

Ph.D. in Electrochemistry: K. N. Toosi University of Technology, Tehran, Iran, April. 2012.

Title: Electrosynthesis and electrochemical study of POAP and its relevant nanocomposite semiconducting films

M.Sc. in physical Chemistry: K. N. Toosi University of Technology, Tehran, Iran, November 2002.

B.Sc. in chemistry: Zanjan University, 1999.

Professional Experience

1. Teaching assistant (during Ph.D. program), General and surface Chemistry, K. N. Toosi University of technology, Tehran, Iran, 2010-2012
2. Assistant Professor of physical Chemistry, University of Qom, Qom, Iran, 2012-present

Courses Taught

1. Advanced physical Chemistry
2. Advanced chemical kinetics
3. Advanced electrochemistry
4. Solid state electrochemistry
5. Physical chemistry
6. Surface chemistry
7. Corrosion
8. Industrial electrochemistry
9. General Chemistry
10. General and physical Chemistry Laboratories

Current Research Interests

1. Surface chemistry and impedance spectroscopy
2. Fuel Cell (electrocatalyst)
3. Corrosion
4. Conductive polymer
5. Electrosynthesis
6. Nanocomposite
7. Anomalous diffusion and fractal object
8. Electrochemical capacitors

Honors & Awards

- ✓ Distinguished researcher in Qom university, 2014, Awarded by the Director of the Qom university.
- ✓ Distinguished researcher in Qom university, 2013, Awarded by the Director of the Qom university.
- ✓ Selected as a best presentation in 7th Iran Fuel Cell seminar, March 2014, Awarded by His Excellency the chairman of the Seminar, Qeshm-Iran.
- ✓ Distinguished Ph.D. student in K. N. Toosi university of Technology, 2010, Awarded by the Director of the K. N. Toosi university of Technology.
- ✓ Distinguished electrochemistry Ph.D. Student in Iranian Electrochemical Society, 2011, Awarded by the Director of the Iranian electrochemical Society.
- ✓ First ranking Ph.D. student of chemistry, K. N. Toosi University of technology, 2012.
- ✓ Selected as a best presentation in 6th Iran electrochemistry seminar, August 2010, Awarded by His Excellency the chairman of the Seminar, Kish-Iran.

- ✓ -Selected as a best poster in 9th Iranian nano conference, March 2011, Awarded by His -Excellency the chairman of the Seminar, Amirkabir university of Technology-Iran.
- ✓ Selected as a best researcher and granted travel award by Romanian Society of Electrochemistry, 3th regional symposium of electrochemistry-East Europe, May-2012, Bucharest, Romania.
- ✓ Selected as reviewer for the following International Scientific Journals
 - *Electrochimica Acta*
 - *Journal of Electroanalytical chemistry*
 - *Synthetic Metals*
 - *Material chemistry and physics*
 - *Corrosion Science*
 - *Journal of Industrial and Engineering Chemistry*
 - *Electroanalysis*
 - *Journal of Molecular Liquid*
 - *Analyst*

Membership

- ✓ International Society of Electrochemistry
- ✓ Iranian society of Electrochemistry
- ✓ Iranian Chemical Society

Research Projects

- ✓ Electrosynthesis and physio-electrochemical characterisation of conducting polymers.
- ✓ Organic corrosion inhibitors: electrochemical and theoretical investigation.

✓ Electrocatalyst in fuel cell

✓ Supercapacitor

List of ISI Publications

- 44)** A. Ehsani, H. Mohammad Shiri, J. Shabani Shayeh, Synthesis and highly efficient supercapacitor behavior of novel poly pyrrole / ceramic oxide nanocomposite film **RSC Advances**, 2015, Accepted. DOI: 10.1039/C5RA19863A
- 43)** A. Ehsani, A. Vaziri-Rad, F. Babaei, H. Mohammad Shiri, Electrosynthesis, optical modeling and electrocatalytic activity of Ni-MWCNT-PT nanocomposite film, **Electrochimica Acta**, 159 (2015) 140–148.
- 42)** J. Shabani-Shayeh, A. Ehsani, MR. Ganjali, P. Norouzi, B. Jaleh, Conductive polymer/reduced graphene oxide/Au nano particles as efficient composite materials in electrochemical supercapacitors, **Applied Surface Science**, 353 (2015) 594-599.
- 41)** A. Ehsani, Influence of counter ions in electrochemical properties and kinetic parameters of poly tyramine electroactive film, **progress in organic coating**, 78(2015)133-139.
- 40)** A. Ehsani, M G. Mahjani, F. Babaei, H. Mostaanzadeh, Physioelectrochemical and DFT investigation of metal oxide/p-type conductive polymer nanoparticles as an efficient catalyst for the electrocatalytic oxidation of methanol, **RSC Advances** 5 (2015) 30394 - 30404 .

39) A. Ehsani, B. Jaleh, M. Nasrollahzadeh, Electrochemical properties and electrocatalytic activity of conducting polymer/copper nanoparticles supported on reduced graphene oxide composite, **Journal of Power Sources**, 257 (2014) 300-307.

38) S. Naghdi, B. Jaleh, **A. Ehsani**, Electrophoretic deposition and thermal annealing of super hydrophobic corrosion protective coating of graphene-oxide Nano sheets on aluminum, *Bulletin of the Chemical Society of Japan*, 88 (2015) 722-728.

37) **Ali Ehsani**, Malihe Ahmadi, Mohammad Ghanbari, Inhibitory Effect of Newly Synthesized Organic Compound in Corrosion of Aluminum: Electrochemical Investigation, *Advances in Analytical Chemistry*, 5(3A)(2015) 19-25.

36) M. Nasrollahzadeh, SM. Sajadi M. Maham, **A. Ehsani**, Facile and surfactant-free synthesis of Pd nanoparticles by the extract of the fruits of Piper longum and their catalytic performance for the Sonogashira coupling reaction in water under ligand- and copper-free conditions, *RSC Advances*, 5(2015) 2562-2567.

35) **A. Ehsani**, R. Moshrefi, M. Ahmadi, Electrochemical investigation of inhibitory of new synthesized 3-(4-Iodophenyl)-2-imino-2,3-dihydrobenzo[d]oxazol-5-yl 4-methylbenzenesulfonate on corrosion of stainless steel in acidic medium. *Electrochemical Science and Technology*, 6(1) (2015) 7-15.

34) M. Nasrollahzadeh, B. Jaleh, **A. Ehsani**, Preparation of carbon supported CuPd nanoparticles as a novel heterogeneous catalyst for reduction of nitroarenes and phosphine-free Suzuki-Miyaura coupling reaction, *New Journal of Chemistry*, 39 (2015) 1148-1153.

33) **A. Ehsani**, F. Babaei, H. Mostanzadeh, Electrochemical and optical investigation of conductive polymer and MWCNT nanocomposite film, *Journal of the Brazilian Chemical Society*, 26 (2015)331-337.

32) **A. Ehsani**, R. Moshrefi, A. Khodadadi, A. Yeganeh-Faal, Inhibitory of Newly Synthesized 3-BrPhOXTs on Corrosion of Stainless Steel in Acidic Medium, *S. Afr. J. Chem.*, 2014, **67**, 198-202.

- 31)** A. Ehsani, N. Ajami, F. Babaei, H. Mostanzadeh, Electrosynthesis and characterisation of poly methylene blue and its nanocomposite with ZnO nanoparticles, *Synth. Met.*, 197 (2014)80-85.
- 30)** N. Ajami, A. Ehsan, F. Babaei, A. Heidaripour, Electrosynthesis and optical modeling of ZnO nanostructures, *Iranian Chemical Communication*, 3(2015)85-92.
- 29)** M. Nasrollahzadeh, M. Khalaj, A. Ehsani, A heterogeneous and reusable nanopolymer-supported palladium catalyst for the copper- and phosphine-free Sonogashira coupling reaction under aerobic conditions in water, *Tetrahedron Letter*, 55 (2014) 5298–5301.
- 28)** J. Shabani-Shayeh, A. Ehsani, M. Jafarian, Physioelectrochemical investigation of electrocatalytic activity of modified carbon paste electrode in alcohol oxidation as anode in fuel cell, *Journal of the Korean Electrochemical Society*. 17 (3) (2014) 1-8.
- 27)** M. Nasrollahzadeh, A. Azarian, A. Ehsani, M. Khalaj, Preparation, optical properties and catalytic activity of TiO₂@Pd nanoparticles as heterogeneous and reusable catalysts for ligand-free Heck coupling reaction, *J. Molecular Catalysis A: Chemical*, 394 (2014)205-210.
- 26)** A. Ehsani, M.G. Mahjani, S. Adeli, S. Moradkhani, Electrosynthesis and physioelectrochemical properties of poly tyramine electroactive film in the presence of the surfactant: comparable study, *progress in organic coating*, 77 (2014) 1674-1681.
- 25)** M. Nasrollahzadeh, A. Zahrari, A. Ehsani, M. Khalaj, Synthesis, characterization, antibacterial and catalytic activity of a nanopolymer supported copper(II) complex as a highly active and recyclable catalyst for the formamidation of arylboronic acids under aerobic conditions, *RSC Adv.* 4 (2014) 20351-20357.
- 24)** M. Nasrollahzadeh, M. Maham, A. Ehsani, M. Khalaj, Palladium on nano-magnetite: a magnetically reusable catalyst in the ligand- and copper-free Sonogashira and Stille cross-coupling reactions, *RSC Adv.* 4 (2014) 19731-36.

- 23)** A. Ehsani, M G. Mahjani, R. Moshrefi, Ho. Mostaanzadeh, J. Shabani, Electrochemical and DFT study on the inhibition of 316L stainless steel corrosion in acidic medium by 1- (4-nitrophenyl)-5-amino-1H-tetrazole, RSC Adv., 2014, 4 (38), 20031 – 20037.
- 22)** M. Nasrollahzadeh, A. Azarian, A. Ehsani, SM. Sajadi, F. Babaei, Hybrid Pd/Fe₃O₄ nanowires: Fabrication, characterization, optical properties and application as magnetically reusable catalyst for the synthesis of N-monosubstituted ureas under ligand-free conditions, Materials Research Bulletin 55 (2014) 168–175.
- 21)** M. Nasrollahzadeh, F. Babaei, A. Ehsani, SM. Sajadi, Green synthesis, optical properties and catalytic activity of silver nanoparticles in the synthesis of N-monosubstituted ureas in water, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy , 132(2014)423-429.
- 20)** M. Nasrollahzadeh, A. Azarian, M. Maham, A. Ehsani , Synthesis of Au/Pd bimetallic nanoparticles and their application in the Suzuki coupling reaction, Journal of Industrial and Engineering Chemistry, 21 (2015)746.
- 19)** M. Nasrollahzadeh, A. Azarian, A. Ehsani, A. Zahraei, Facile synthesis of Fe@Pd nanowires and their catalytic activity in ligand-free C-N bond formation in water, Tetrahedron Letter , 55(2014) 2813-2817.
- 18)** M. Nasrollahzadeh, A. Rostami-Vartouni, A. Ehsani, M. Moghadam, Fabrication, characterization and application of nanopolymer supported copper (II) complex as an effective and reusable catalyst for the C-N bond cross-coupling reaction of sulfonamides with arylboronic acids in water under aerobic conditions, J. of Molecular Catalysis A: chemical, 387 (2014) 123–129.
- 17)** A. Naeemy, A. Ehsani, M. Jafarian, M. Moradi, Physioelectrochemical investigation of electrocatalytic oxidation of saccharose on conductive polymer modified graphite electrode , *Electrochemical Science and Technology*, accepted.
- 16)** A. Ehsani, M. Nasrollahzadeh, MG. Mahjani, R. Moshrefi, H. Mostaanzadeh , Electrochemical and quantum chemical investigation of inhibitory of 1, 4-Ph (OX)₂(Ts)₂ on corrosion of 1005 aluminium alloy in acidic medium, Journal of Industrial and Engineering Chemistry, 20 (2014) 4363-4370.

- 15)** M. Nasrollahzadeh, **A. Ehsani**, M. Maham' Copper-Catalyzed N-Arylation of Sulfonamides with Boronic Acids in Water under Ligand-Free and Aerobic Conditions, *Synlett*, 25 (2014) 505-508.
- 14)** **A. Ehsani**, S. Adeli, F. Babaei, H. Mostaanazadeh, M. Nasrollahzadeh, Electrochemical and optical properties of TiO₂ nanoparticles/poly tyramine composite film, *J. Electroanal. Chem.* 713 (2014) 91–97.
- 13)** **A. Ehsani**, M.G. Mahjani, M. Nasserri, M. Jafarian, Influence of electrosynthesis condition and Al₂O₃ nanoparticles on corrosion protection effect of polypyrrole film, *Anti corrosion method and material*, 61 (2014) 146-152.
- 12)** M. Nasrollahzadeh, **A. Ehsani**, A. Rostami-Vartouni, Ultrasound-promoted green approach for the synthesis of sulfonamides using natural, stable and reusable Natrolite nanozeolite catalyst at room temperature, *Ultrasonics Sonochemistry* 21 (2014) 275–282.
- 11)** **A. Ehsani**, F. Babaei, M. Nasrollahzadeh, Electrosynthesis and absorbance spectra of TiO₂ nanoparticles dispersed in the conductive polymer, *Applied Surface Science*, 283 (2013) 1060-1064.
- 10)** **A. Ehsani**, M.G. Mahjani, M. Bordbar, S. Adeli, Electrochemical study of anomalous diffusion and fractal dimension in poly ortho aminophenol electroactive film: Comparative study, *J. Electroanal. Chem.* 710 (2013) 29-35.
- 9)** **A. Ehsani**, M.G. Mahjani, M. Bordbar, R. Moshrefi, Poly ortho aminophenol / TiO₂ nanocomposite: electrosynthesis and characterization, *Synthetic Metals*. 165 (2013) 51-55.
- 8)** **A. Ehsani**, M. G. Mahjani, M. Jafarian, A. Naeemy, Electrosynthesis of polypyrrole composite film and electrocatalytic oxidation of ethanol, *Electrochimica Acta* 71 (2012) 128-133.
- 7)** A.R. Feizbakhsh, A. Naeemy, **A. Ehsani**, A. Aghasi, I. Danaee, Electrocatalytic oxidation of paracetamol on Ni and NiCu alloy modified glassy carbon electrode, *J. Chin. Chem. Soc.* 2012, 59, 1086-1093.
- 6)** **A. Ehsani**, M.G. Mahjani, M. Jafarian, Electrosynthesis of poly ortho aminophenol films and nanoparticles: A comparative study, *Synthetic Metals*, 62 (2012) 199-204.

- 5) **A. Ehsani**, M.G. Mahjani, M. Jafarian, Electrochemical impedance spectroscopy study on intercalation and anomalous diffusion of AlCl_4^- ions into graphite in basic molten salt, Turkish. Journal of chemistry, 35 (2011) 1-9.
- 4) M.G. Mahjani, R. Moshrefi, **A. Ehsani**, M. Jafarian, A study of galvanic corrosion of titanium/316 L stainless steel in artificial seawater using electrochemical noise measurement and electrochemical impedance spectroscopy, Anti corrosion method and material, 58 (2011) 250-257.
- 3) **A. Ehsani**, M.G. Mahjani, M. Jafarian, An Electrochemical study of the synthesis and properties of multi-walled carbon nanotube/ poly ortho aminophenol composites, synthetic metals, 161 (2011) 1760-1765.
- 2) **A. Ehsani**, M. G. Mahjani, M. Jafarian, A. Naeemy, Influence of ionic surfactant on physiochemical properties and fractal dimension of poly ortho aminophenol film. Progress in organic coating, 69 (2010) 510.
- 1) M. G. Mahjani, **A. Ehsani**, M. Jafarian, Electrochemical study on the semiconductor properties and fractal dimension of poly ortho aminophenol modified graphite electrode in contact with different aqueous electrolytes, Synthetic metals, 160 (2010) 1252–1258.

Paper presented at national and international Meetings and Congresses

- 1) M. Jafarian, M.G. Mahjani, **A. Ehsani**, Electrodeposition of Aluminum in basic (AlCl_3 , NaCl, KCl), 53rd Annual Meeting of the International Society of Electrochemistry, Düsseldorf, **Germany**, September- 2002.
- 2) M. Jafarian, M.G. Mahjani, **A. Ehsani**, Electro deposition of Aluminum in acidic (AlCl_3 , NaCl, KCl) 5th seminar of physical chemistry, Urmia university, Urmia-Iran, August- 2002.
- 3) M.G. Mahjani, M. Jafarian, **A. Ehsani**, Electrochemical impedance spectroscopy study on semiconductor properties of poly-ortho-aminophenel modified graphphite electrode. 5th seminar of Iranian Electrochemistry , Tarbiat modares university-Tehran, April- 2009.
- 4) M.G. Mahjani, M. Jafarian, **A. Ehsani**, A. Naeemy, Influence of irregular surface and dopant ions on electrocatalytic activity of conducting polymer modified graphite electrode, 3thseminar of fuel cell , Shahid rajae university – Tehran, October- 2009

- 5) M.G. Mahjani, M. Jafarian, **A. Ehsani**, A. Naeemy, Electrocatalytic oxidation of ethanol in polypyrrole modified graphite electrode, 3th seminar of fuel cell, Shahid rajae university – Tehran, October- 2009)
- 6) M.G. Mahjani, A. Sharifi, **A. Ehsani**, M. Jafarian, Electrochemical impedance study on anomalous diffusion in poly pyrrole film, 13th seminar of physical chemistry, shiraze-Iran, April- 2010.
- 7) **A. Ehsani**, M.G. Mahjani, M. Jafarian, Electrochemical impedance study on supercapacitor properties of Poly ortho aminophenol conducting polymer, 13th seminar of physical chemistry, shiraze-Iran, April- 2010)
- 8) M. Jafarian, A. Naeemy, M.G. Mahjani, **A. Ehsani**, Improvement of the electrosynthesis and properties of Poly (o-aminophenol) using a SDS Micellar Aque, 13th seminar of physical chemistry, shiraze-Iran, April- 2010.
- 9) **A. Ehsani**, M.G. Mahjani, M. Jafarian, Electrochemical impedance spectroscopy study on intercalation and anomalous diffusion of aluminum ions into graphite in basic molten salt ($\text{AlCl}_3\text{-NaCl-KCl}$), 13th seminar of physical chemistry , shiraz-Iran, April- 2010.
- 10) A. Naeemy, **A. Ehsani**, Characterization of polypyrrole nanowire. The 2nd national Nano Materials & Nano Technology conference *May 2010, esfahan, Iran*
- 11) A. Naeemy, **A. Ehsani**, Application of nano particles and nano materials in fuel cells . The 2nd national Nano Materials & Nano Technology conference, *May 2010, esfahan, Iran*
- 12) **A. Ehsani**, M.G. Mahjani, M. Jafarian, Electrochemical study on synthesis and characterization of poly ortho aminophenol / multi-walled carbon nanotube composite film, 61st Annual meeting of the International Society of Electrochemistry, **France**, September- 2010.
- 13) **A. Ehsani**, M.G. Mahjani, M. Jafarian, Electrochemical fabrication of poly ortho aminophenol/multi-walled carbon nanotube/NiO composite films for electrocatalytic oxidation of methanol, 61st Annual meeting of the International Society of Electrochemistry, **France**, September- 2010.
- 14) **A. Ehsani**, M.G. Mahjani, M. Jafarian, Electrocatalytic oxidation of methanol on poly pyrrole/multi-walled carbon nanotube/NiO composite films, **Spain** fuel cell seminar 2010.

- 15) **A. Ehsani**, M.G. Mahjani, M. Jafarian, Influence of synthesis condition on morphology and electrochemical properties of poly ortho aminophenol film, 6th seminar of Iranian Electrochemistry , Kish, Iran, 2010.
- 16) **A. Ehsani**, M.G. Mahjani, M. Jafarian, Electrochemical fabrication and application of poly ortho aminophenol/Al₂O₃ nanocomposite films, 6th seminar of Iranian Electrochemistry , Kish, Iran, 2010.
- 17) M.G. Mahjani, R. Moshrefi, **A. Ehsani**, A study of galvanic corrosion of titanium/316 L stainless steel in artificial seawater using electrochemical noise measurement and electrochemical impedance spectroscopy, 6th seminar of Iranian Electrochemistry , Kish, Iran, 2010.
- 18) M.G. Mahjani, A. Sharifi, **A. Ehsani**, M. Jafarian, Anomalous Diffusion in Poly pyrrole modified glassy carbon electrode in different synthesis condition , 6th seminar of Iranian Electrochemistry , Kish, Iran, 2010.
- 19) M.G. Mahjani, A. Naeemy, **A. Ehsani**, A. Aghasi, Discussion and Reveal of Anomalous Diffusion Impedance of Realistic Fractal Polymeric Electrode. 6th seminar of Iranian Electrochemistry , Kish, Iran, 2010.
- 20) A.R. Feizbakhsh, A. Naeemy, **A. Ehsani**, Application of Carbon anotubes in green chemistry for modified polymeric electrode in fuel cells, 4th Iranian seminar of chemistry & environment, Bandarabas, Iran, 2010.
- 21) **A. Ehsani**, M.G. Mahjani, M. Jafarian, Electrochemical study on synthesis and electrocatalytic properties of poly ortho aminophenol / multi-walled carbon nanotube composite, 4th seminar of fuel cell, Shahid rajae university – Tehran, November- 2010)
- 22) **A. Ehsani**, M.G. Mahjani, M. Jafarian, Electrochemical study in self assembled monolayers modified electrode, 14th seminar of physical chemistry , Kish-Iran, February- 2011.
- 23) **A. Ehsani**, M.G. Mahjani, M. Jafarian, Corrosion protection effect of poly ortho aminophenol nanocomposites, 14th seminar of physical chemistry , Kish-Iran, February- 2011.
- 24) **A. Ehsani**, M.G. Mahjani, M. Jafarian , Electrochemical fabrication and application of poly ortho aminophenol/TiO₂ nanocomposite films, 14th seminar of physical chemistry , Kish-Iran, February- 2011.
- 25) **A. Ehsani**, M.G. Mahjani, M. Jafarian Electrochemical impedance spectroscopy study on semi infinite and finite diffusion in electroactive media. 9th Iranian Biennial electrochemistry seminar, Yazd-Iran, January-2011.
- 26) **A. Ehsani**, M.G. Mahjani, M. Jafarian, Electrosynthesis of non-covalent functionalization MWCNT and POAP nanocomposite. 9th Iranian Biennial electrochemistry seminar, Yazd-Iran, January-2011.

- 27) **A. Ehsani**, M.G. Mahjani, M. Jafarian Electrochemical impedance study on anomalous diffusion in poly ortho amino phenol film. 9th Iranian Biennial electrochemistry seminar, Yazd-Iran, January-2011.
- 28) M.G. Mahjani, A. Sharifi, **A. Ehsani**, M. Jafarian, Effect of different condition on anomalous diffusion in polypyrrole film, 14th seminar of physical chemistry , Kish-Iran, February- 2011.
- 29) A.R. Feizbakhsh, A. Naeemy, H. Yadaee, **A. Ehsani**, Surfactant assistant electropolymerization of polyaniline nanocomposite, The national conference of chemistry and chemical engineering, 9, 10, March 2011, Islamic Azad university Branch of Gachsaran.
- 30) A.R. Feizbakhsh, A. Naeemy, **A. Ehsani**, H. Yadaee, Characterization and preparation of single wall nanotubes for hydrogen storage, Regional chemistry congress Islamic Azad University, Miyaneh Branch, March 3, 2011.
- 31) M.G. Mahjani*, M. Nasser, **A. Ehsani**, M. Jafarian, Electrochemical study on corrosion protection effect of polypyrrole/Al₂O₃ nanocomposites on stainless steel in artificial sea water, 8th Iranian conference of corrosion, Amirkabir University of Technology, May, 2011.
- 32) M.G. Mahjani, A. Taherzadshadbad, **A. Ehsani**, M. Jafarian, Influence of synthesis condition on metal oxide nanocomposite coating in corrosive media, 15th ICC, hamedan, Iran, 4-6 september 20011.
- 33) A.R. Feizebakhsh, S. Bagheri, **A. Ehsani**, A. Naeemy, Electrocatalytic oxidation and determination of ascorbic acid onto polypyrrole nanostructure, 15th ICC, hamedan, Iran, 4-6 september 2011.
- 34) **A. Ehsani**, M.G. Mahjani, M. Jafarian, Poly ortho aminophenol/TiO₂ nanocomposite: Electrosynthesis and electrochemical application , 62nd Annual meeting of the International Society of Electrochemistry, **Japan**, September- 2011.
- 35) **A. Ehsani**, M.G. Mahjani, M. Jafarian, P-type conducting polymer/multi-walled carbon nanotubes composite electrocatalyst in fuel cell, 62nd Annual meeting of the International Society of Electrochemistry, **Japan**, September- 2011 (oral presentation).
- 36) **A. Ehsani**, M.G. Mahjani, M. Jafarian, Electrochemical study on ionic and electronic conduction in conducting polymer, 7th seminar of Iranian Electrochemistry , K. N. Toosi University of Technology, Tehran, Iran, November 2011.

- 37) S. Nazari, M.G. Mahjani, **A. Ehsani**, M. Jafarian, Impedance responses of poly ortho aminophenol film electrodes in the presence of different anions: comparative study 7th seminar of Iranian Electrochemistry, K. N. Toosi University of Technology, Tehran, Iran, November 2011.
- 38) R. Mahmoudi, M.G. Mahjani, **A. Ehsani**, M. Jafarian, Electrochemical study on corrosion protection effect of polyoxometal/polypyrrole composite 7th seminar of Iranian Electrochemistry, K. N. Toosi University of Technology, Tehran, Iran, November 2011.
- 39) **A. Ehsani**, M.G. Mahjani, M. Jafarian, Electrosynthesis and electrochemical study of MWCNT/POAP composite films, 11th student conference of nanotechnology, Amirkabir university of technology, Tehran Iran, february 2012.
- 40) A. Sharifi, M.G. Mahjani, **A. Ehsani**, M. Jafarian, Calculation of fractal dimension in Polypyrrole conductive polymer, the first conference of fractal and complex system, Mashhad Azad university, Mashhad Iran, 22-23 December 2011.
- 41) **A. Ehsani**, M.G. Mahjani, M. Jafarian, electrosynthesis of POAP nanoparticles and nanocomposites, 63rd Annual meeting of International Society of Electrochemistry, **Czech Republic**, September- 2012.
- 42) **A. Ehsani**, M.G. Mahjani, M. Jafarian, Pulse galvanostatic electropolymerisation of POAP nanoparticles: synthesis and characterisation, 3rd Regional symposium on Electrochemistry, **Romany**, May-2012.
- 43) **A. Ehsani**, M. Nasrollahzadeh, Electrochemical study of inhibitor properties of new class of azoles in acidic media, 8th Iranian Conference of electrochemistry, Mazandaran university, February 2013.
- 44) **A. Ehsani**, Influence of synthesis condition and Al₂O₃ nanoparticles on corrosion protection effect of semiconducting coating film, 19th conference of analytical chemistry, Ferdosi Mashhad university, Mashhad-Iran, March 2013.
- 45) **A. Ehsani**, Electrocatalytic oxidation of methanol on semiconducting polymer nanocomposite in alkaline media, 6th seminar of Iranian Fuel Cell, Shahid Rajaee university, Tehran, Iran. March 2013.
- 46) **A. Ehsani**, A. Vazirirad, Metal oxide nanoparticles/Conducting polymer Composite: Electrosynthesis and Characterisation, 9th Iranian Conference of electrochemistry, Tarbiat modrarres university, Tehran, Iran, November 2013.

- 47) **A. Ehsani**, Electrochemical investigation of adsorption and inhibitory of 1,4-Ph(OX)₂(Ts)₂ on corrosion of aluminium in acidic media 9th Iranian Conference of electrochemistry, Tarbiat modrarres university, Tehran, Iran, November 2013.
- 48) **A. Ehsani**, Electrochemical investigation of redox and hybrid supercapacitors, 2nd Iranian Battery seminar, Olympic Hotel, Tehran, Iran, February 2014.
- 49) **A. Ehsani**, M. Ahmadi, “Fundamental question in electrochemistry, In view of kinetics and thermodynamic” 1st electrochemistry education seminar, Shahid Rajaei university, Tehran, Iran. February 2014.
- 50) **A. Ehsani**, M. Ahmadi, Difference between corrosion and oxidation, 1st electrochemistry education seminar, Shahid Rajaei university, Tehran, Iran. February 2014.
- 51) **A. Ehsani**, M. Ahmadi, Electrocatalytic activity of metal nanoparticles supported on reduced graphene oxide dispersed in conducting polymer, 7th Iranian Fuel Cell Seminar, Qheshm, Iran. February 2014.
- 52) **A. Ehsani**, M. Ahmadi, Physioelectrochemical investigation of polytyramine composite film as an anode material in fuel cell, 7th Iranian Fuel Cell Seminar, Qheshm, Iran. February 2014.
- 53) **A. Ehsani**, Physioelectrochemical aspects in electroactive semiconducting polymeric and relevant nanocomposite films, 11th Iranian Biennial electrochemistry seminar, Rasht-Iran, September-2014.
- 54) **A. Ehsani**, Electrosynthesis and electrocatalytic activity of graphene oxide/conducting polymer nanocomposite film, 62nd Annual meeting of the International Society of Electrochemistry, Lausanne, **Switzerland**, September- 2014.
- 55) **A. Ehsani**, Electrochemical and DFT study on the adsorption and inhibitory of newly synthesized tetrazol nanoparticles in acidic media, 62nd Annual meeting of the International Society of Electrochemistry, Lausanne, **Switzerland**, September- 2014.