

## Curriculum Vita

**Name** Jalal Arjomandi

**Date of birth** 15. 07. 1970

**Place of birth** Hamedan, Iran

**Nationality** Iranian

**Marriage Status** Married-1995, Iran

### School Education

**1977-1982** Rahnama primary school

**1982-1985** Khayam secondary school

**1986-1989** Emam Khomini high school

### University Education

**1990-1994** B.Sc., Chemistry, Bu-Ali-Sina University-Hamedan-Iran

**1998-2000** M.Sc., Physical Chemistry Bu-Ali-Sina University-Hamedan-Iran

**2004-2007** Ph.D., Physical Chemistry-Electrochemistry, Technical University of Chemnitz, Chemnitz, Germany

**2007** Assistant Prof. in Electrochemistry, Faculty of Chemistry, Physical Chemistry-Bu-Ali Sina University-Hamedan-Iran

**2013-Now** Associate Prof. in Electrochemistry, Faculty of Chemistry, Physical Chemistry-Bu-Ali Sina University-Hamedan-Iran

### Experience and Skills

**1994-1998** Instructor in Chemistry laboratory and supervisor For Ft-IR, UV-Visible and NMR spectroscopy instruments at Bu-Ali-Sina University-Hamedan-Iran

**2000-2001** Researchers: By: AFM and PIA spectroscopy on particles in Siegen University-Germany

**2001-2003** Faculty member of Chemistry in Bu-Ali-Sina University-Hamedan-Iran

**2004-2007** Spectroscopy devices and others: Analytical apparatus, NMR, in situ Raman, UV, IR, SEM, TEM, EDX, ERD,....



- Potentiostat, florescence, etc. during PhD course in Technical University of Chemnitz-Germany
- 2007-Now** Supervisor and advisor: more than 15 MSc and 4 PhD Student in Electrochemistry
- 2001-Now** **A:** lecture and poster presentations: more than 100 seminar and conferences, Europa, Asia and Iran  
**B:** Referee in some ISI journal and seminar committee
- Research interest** Electrochemistry field, chemical synthesis, conducting polymers, nano composite materials, electrosynthesis and polymerization, spectroscopy, etc.

**Book:**

General Chemistry Experiments 1&2, Bu-Ali Sina University Publisher, 2010, First ed., Hamedan, Iran. (Second ed. 2013).

**List of Publications**

1. **J. Arjomandi\***, F. Ghamari, M. Raoufi, "Surface Characterization and morphology of conducting polypyrrole thin films during polymer growth on ITO glass electrode" Physical Chemistry C, 2016, Under Review, IF: 4.772.
2. **J. Arjomandi\***, H. Moghani Baveli, M. Hosseini, "Effects of Gallium and Lead on the Electrochemical Behavior of Al-Mg-Sn-Ga-Pb as Anode of High Rate Discharge Battery" J. Indust. Eng. Chem., 2016, Under Review, IF: 3.512.
3. H. Moghanni-Baveli, M. H. Parvina, **J. Arjomandi\***, M. Joshaghani, K.Hamidian, "Electrochemical and theoretical quantum studies on the inhibition of aluminum corrosion in alkaline solution by a novel azo-Schiff base" J. Ir . Chem. Soc., 2016., Submitted for Publication, IF: 1.087.
4. **J. Arjomandi\***, H. Makhdomi and M. H. Parvin, "Novel conducting poly (p-nitro aniline-co-N-methyl aniline): Electrosynthesis, mechanism and in situ spectroelectrochemical characterization" Synth. Met., 2016, 220, 123-133, IF: 2.252.

5. **J. Arjomandi\***, M. Malmir, R. Holze, “A comparative spectroelectrochemistry of homo- and copolymerization of pyrrole and N-methylpyrrole with indole on a gold electrode” *Iran. Polym. J.*, 2016, 25, 1, IF: 1.806.
6. H. Moghani Baveli, **J. Arjomandi\***, “Enhanced electrochemical performance of Al-0.9Mg-1Zn-0.1Mn-0.05Bi-0.02In fabricated from commercially pure aluminum for use as the anode of alkaline batteries” *RSC Advances*, 2016, 6, 28055, IF: 3.840.
7. M.H. Parvin, M. Pirnia, **J. Arjomandi\***, “Electrochemical synthesis, in situ spectroelectrochemistry of conducting indole-titanium dioxide and zinc oxide polymer nanocomposites for rechargeable batteries “ *Electrochimica Acta*, 2015, 185, 276, IF: 4.504.
8. H. Moghani Baveli, **J. Arjomandi\***, “Performance of Al-1Mg-1Zn-0.1Bi-0.02In as anode for the Al-AgO battery” *RSC Advances*, 2015, 5, 91273, IF: 3.840.
9. **J. Arjomandi\***, A. Ashrafian, M.H. Parvin, “Conducting Copolymers of N-methylaniline and o-aminophenol: Electrosynthesis and In Situ Spectroelectrochemical Characterization” *J. Electrochem. Soc.*, 2015, 162 (14) E353, IF: 3.266.
10. **J. Arjomandi\***, S. Zamanian, M.H. Parvin, F. Alakhras, “Characterization, Electrosynthesis and In Situ Spectroelectro-Chemical Studies of Poly (p-nitroaniline-co-p-aminophenol) in Aqueous Media” *J. Electrochem. Soc.*, 2015, 162 (10), E191, IF: 3.266.
11. **J. Arjomandi\***, “Kinetic and In Situ Spectroelectrochemical Studies of Conducting Polypyrrole and Its Substituted Growth on Gold and ITO Glass Electrodes” *J. Electrochem. Soc.*, 2015, 162 (6) E59, IF: 3.266.
12. **J. Arjomandi\***, F. Heydari, D, Habibi,” The synthesis and morphological analysis of conducting homopolymers and copolymers of aniline and N-methylpyrrole *J. Iran. Chem. Soc.*, 2015, 12:447 IF: 1.087.
13. **J. Arjomandi\***, N. Keramat Irad Mossa, B. Jaleh, “Electrochemical Synthesis and In Situ Spectroelectrochemistry of Conducting NMPy-TiO<sub>2</sub> and ZnO Polymer Nanocomposites for Li Secondary Battery Applications” *J. Appl. Polym. Sci.* 2015, 32, 41526, IF: 1.768.
14. **J. Arjomandi\***, Z. Kakaei, “Electrosynthesis and In Situ Spectroelectrochemistry of Conducting o-aminophenol-p-aminophenol Copolymers in Aqueous Solution” *J. Electrochem. Soc.* 2014, 161, 53, IF: 3.266.

15. **J. Arjomandi\***, S. Tadayyonfar, “Electrochemical Synthesis and In Situ Spectroelectrochemistry of Conducting Polymer Nanocomposites. I. Polyaniline/TiO<sub>2</sub>, Polyaniline/ZnO, and Polyaniline/TiO<sub>2</sub>/ZnO”: *Polym. Compos.* 2014, 35, 351, IF:1.632.
16. J. Arjomandi\*, D. Nematollahi A. Amani, “Enhanced Electrical Conductivity of Polyindole Prepared by Electrochemical Polymerization of Indole in Ionic Liquids” *J. Appl. Polym. Sci.*, 2014, 131, 40094, IF: 1.768.
17. **J. Arjomandi\***, S. Eshghi, “In situ spectroelectrochemistry, electrosynthesis and growth rates of conducting polypyrrole and poly N-methylpyrrole on gold and indium tin oxide glass modified by thiolated  $\alpha$ -cyclodextrin self-assembled monolayer’s (SAMs)” *J. Electroanal. Chem.* 2013, 690, 36, 2.729.
18. **J. Arjomandi\***, R. Holze, “A spectroelectrochemical study of conducting pyrrole-N-methylpyrrole copolymers in nonaqueous solution” *J. Solid State Electrochem.* 2013, 17, 1881, IF: 2.446.
19. **J. Arjomandi\***, S. Safdar, M. Malmir, “In Situ UV-Visible Spectroelectrochemistry and Cyclic Voltammetry of Conducting N-Methylpyrrole: Indole Copolymers on Gold Electrode” *J. Electrochem. Soc.*, 2012, 159, 73, IF: 3.266.
20. J. Arjomandi\*, A. A. Shah, S. Bilal, H. V. Hoang, R. Holze, “In situ Raman and UV-vis spectroscopic studies of polypyrrole and poly(pyrrole-2,6-dimethyl- $\alpha$ -cyclodextrin)” *Spectrochimica Acta Part A*, 2011, 78, 1, IF: 2.353.
21. **J. Arjomandi\***, F. Alakhras, W. Al-Halasa, R. Holze, “Spectroelectrochemical and Theoretical Tools Applied towards an Enhanced Understanding of Structure, Energetics and Dynamics of Molecules and Polymers: Polyfuranes, Polythiophenes, Polypyrroles and their Copolymers” *Jordan J. Chem.*, 2009, 4(3), 279.
22. **J. Arjomandi**, R. Holze\*, “Electrochemical preparation and in situ characterization of poly(3-methylpyrrole) and poly(3-methylpyrrole-cyclodextrin) films on gold electrodes” *Cent. Eur. J. Chem.*, 2008, 6, 199, IF: 1.329.
23. **J. Arjomandi\***, R. Holze, “In situ characterization of N-methylpyrrole and (N-methylpyrrole-cyclodextrin) polymers on gold electrodes in aqueous and nonaqueous solution” *J. Solid State Electrochem.*, 2007, 11, 1093, IF: 2.446.

24. **J. Arjomandi**, R. Holze, "Spectroelectrochemistry of conducting polypyrrole and poly(pyrrole–cyclodextrin) prepared in aqueous and nonaqueous solvents": *Synth. Met.*, 2007, 157, 1021, IF: 2.252.
25. H. Iloukhani, **J. Arjomandi**, A.A. Rafati, "H-NMR and Thermodynamic Studies of Methanol-Formamide Mixtures" *Asian J. Chem.*, 2002, 14, 34, IF: 0.355.
26. H. Iloukhani, **J. Arjomandi**, A.A. Rafati, "Intermolecular interaction liquid ethanol-dioxan mixtures" *Asian J. Chem.*, 2000, 12, 118, IF: 0.355.