

IN THE NAME OF GOD

ACADEMIC CURRICULUM VITAE

Mona Kharazi



CONTACT INFORMATION:

**Ph.D. Student of Applied Chemistry, Department of Apply Chemistry,
Faculty of Chemistry, Bu-Ali Sina University, Hamadan, Iran.**

Email: Kharazy91@yahoo.com

Phone: +98-9188545245

PERSONAL INFORMATION:

Date of Birth: 1989 (1368)

Citizenship: Iran

EDUCATION:

✓ **2015-2021 Ph.D.: Chemistry**

Field: Applied Chemistry

Title: *A Study on the Effect of Gemini Surface Active Nano Ionic Liquids on the Interfacial Tension of Crude Oil and Salty Water at Different Temperatures*

**Department of Apply Chemistry, Faculty of Chemistry, Bu-Ali Sina University,
Hamadan, Iran.**

✓ **2012-2015 M.Sc.: Chemistry**

Field: Applied Chemistry

Title: *A Study on Interfacial Tension of N-butyl Acetate - Water System in The Presence of Ionic Liquids*

**Department of Apply Chemistry, Faculty of Chemistry, Bu-Ali Sina University,
Hamadan, Iran.**

✓ **2008-2012 B.Sc.: Chemistry**

Field: Applied Chemistry

**Department of Apply Chemistry, Faculty of Chemistry, Bu-Ali Sina University,
Hamadan, Iran.**

HONORS & AWARDS:

- ✓ **Achieved the distinguished Student in 4nd international scientific Olympiad (chemistry) competitions, 2011.**
 - ✓ **Achieved the 20nd rank in Chemistry Nationwide Competitive Ph.D. Entrance Exam 2015 in fields of Applied Chemistry.**
 - ✓ **Membership of the Talent of Bu-Ali Sina University (2015-2018 among Ph.D.)**
 - ✓ **Membership of the Talent of Bu-Ali Sina University (2012-2015 among M.Sc.).**
 - ✓ **Membership of the Talent of Bu-Ali Sina University (2008-2012 among B.Sc.).**
 - ✓ **Outstanding researcher at Bu-Ali Sina University, 2015.**
 - ✓ **Distinguished Student among M.Sc. chemistry students, Bu-Ali Sina University, Hamedan, Iran**
 - ✓ **Distinguished Student among B.Sc. chemistry students, Bu-Ali Sina University, Hamedan, Iran.**
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TEACHING:

Name of the course:

General Chemistry at Bu-Ali Sina University (2017-2018)

PROFESSIONAL MEMBERSHIPS:

- ✓ **Membership of the Iranian Chemical Society.**
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RESEARCH AREAS OF INTEREST:

- ✓ **Interfacial tension between crude oil-water**
 - ✓ **Interfacial tension between liquid-liquid phases**
 - ✓ **Ionic liquid as green solvent applications in interfacial tension**
 - ✓ **Gemini ionic liquid as new surfactant**
 - ✓ **Nanometer ionic liquid as new kind of ionic liquids**
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PUBLICATIONS:

JOURNAL PAPERS:

- 1. Promoting activity of gemini ionic liquids surfactant at the interface of crude oil-water**

M. Kharazi, J. Saien, M. Yarie, M.A. Zolfigol, Pet. Res. 2021, 00, 00-00.

- 2. The superior effects of a long chain gemini ionic liquid on the interfacial tension, emulsification and oil displacement of crude oil-water**

M. Kharazi, J. Saien, M. Yarie, M.A. Zolfigol, J. Pet. Sci. Eng. 2020, 195, 00-00.

- 3. Different spacer homologs of gemini imidazolium ionic liquid surfactants at the interface of crude oil-water**

M. Kharazi, J. Saien, M. Yarie, M.A. Zolfigol, J. Mol. Liquid. 2019, 296, 189-196.

- 4. Systematic Investigation of a Surfactant Type Nano Gemini Ionic Liquid and Simultaneous Abnormal Salts Effects on the Crude Oil/Water Interfacial Tension**

J. Saien, M. Kharazi, M. Yarie, M.A. Zolfigol, Ind. Eng. Chem. Res. 2019, 58, 3583-3594.

- 5. A Comparative Study on the Interface Behavior of Different Counter Anion Long Chain Imidazolium Ionic Liquids**

J. Saien, M. Kharazi, J. Mol. Liquid. 2016, 220, 136-141.

- 6. Adsorption Behavior of Long Alkyl Chain Imidazolium Ionic Liquids at the n-Butyl Acetate + Water Interface**

J. Saien, M. Kharazi, S. Asadabadi, J. Mol. Liquid. 2015, 212, 58-62.

- 7. Adsorption Behavior of Short Alkyl Chain Imidazolium Ionic Liquids at n-Butyl Acetate + Water Interface: Experiments and Modeling**

J. Saien, M. Kharazi, S. Asadabadi, Iranian J. Chem. Eng. 2015, 59-74.

PAPER PRESENTED AT CONGRESSES (AS LECTURE OR PRESENTATION):

7th National Congress on Chemistry and Chemical Engineering of Iran emphasizing Iranian native technologies, Tehran, Iran, 21-22 September, 2020.

- 1. Wettability Alteration and Oil Displacement in the Presence of Imidazolium Gemini Ionic Liquid;** *The 7th National Congress on Chemistry and Chemical Engineering of Iran emphasizing Iranian native technologies, 2020.*
- 2. pH and Temperature Effects on the Enhanced Oil Recovery with Gemini Ionic Liquids;** *The 7th National Congress on Chemistry and Chemical Engineering of Iran emphasizing Iranian native technologies, 2020.*

The 11th International Chemical Engineering Congress & Exhibition (IChEC 2020), Fouman, Iran, 15-17 April, 2020.

- 3. Influence of Different Salts on the Enhanced Oil Recovery with Different Spacer Length Gemini Ionic Liquids for Interfacial Tension Reduction;** *The 11th International Chemical Engineering Congress & Exhibition (IChEC), 2020.*
- 4. Dynamic and Equilibrium Interfacial Tension Behavior of Crude Oil-Water in the Presence of [C4im-C8-imC4][Br₂] Imidazolium Gemini Ionic Liquid;** *The 11th International Chemical Engineering Congress & Exhibition (IChEC), 2020.*

The 4th Iranian Applied Chemistry Conference, Urmia University, Urmia, Iran, 23-25 July, 2019.

- 5. Investigation on Spacer Length Effect of Gemini Ionic Liquids on the Crude Oil/Water Interfacial Tension for Enhanced Oil Recovery;** *The 4th Iranian Applied Chemistry Seminar, 2019.*
- 6. The Alkyl Chain Length Effect of the Gemini Ionic Liquids Type Surfactant on the Crude Oil/Water Interfacial Tension at Different Temperatures and pHs;** *The 4th Iranian Applied Chemistry Seminar, 2019.*

The 3th Iranian Applied Chemistry Seminar, Bu-Ali Sina University, Hamedan, Iran, 28-29 August, 2018.

- 7. The Effect of Nano Gemini Ionic Liquid Type Surfactant on Interfacial Tension for Enhanced Oil Recovery;** *The 3th Iranian Applied Chemistry Seminar, 2018.*
- 8. Effect of Salts on the Function of a Gemini Ionic Liquid in Interfacial Tension Reduction of Crude Oil/Water;** *The 3th Iranian Applied Chemistry Seminar, 2018.*

The 15th Iranian National Congress of Chemical Engineering (ICHEC), Tehran University, Tehran-Iran, 17-19 February, 2015.

9. **A Comparative Study on the Interface Behaviour of Short-Chain and Long-Chain Ionic Liquids;** *The 15th Iranian National Congress of Chemical Engineering (IChEC), 2015.*
10. **Influence of [C16mim][X] with X = (Cl, Br and I) on the Interfacial Tension;** *The 15th Iranian National Congress of Chemical Engineering (IChEC), 2015.*
11. **Counter Anion and Temperature Effects on the Interfacial Adsorption of Different Long-Chain Imidazolium Ionic Liquids;** *The 15th Iranian National Congress of Chemical Engineering (IChEC), 2015.*

The 17th Iranian Physical Chemistry Conference, Khajeh Nasir Toosi University, Tehran-Iran, 21-23 October, 2014.

12. **Alkyl Chain Length Effects on Adsorption Parameters of Imidazolium-Based Ionic Liquids at Liquid-Liquid Interface;** *17th Iranian Physical Chemistry Conference, 2014.*
13. **Interfacial Tension of n-Butyl Acetate + Water System under Influence of Imidazolium Ionic Liquid at Different Temperatures;** *17th Iranian Physical Chemistry Conference, 2014.*

The 17th Congress of Iranian Chemistry, Vali-e-Asr University, Rafsanjan-Iran, 1-3 September, 2014.

14. **Interfacial Tension of n-Butyl Acetate + Water System under Influence of Imidazolium [C6mim][Cl] Ionic Liquid at Different Temperatures;** *17th Iranian Chemistry Congress, 2014.*

COMPLETED RESEARCH PROJECTS:

1. Investigation on interfacial tension of liquid-liquid systems.
 2. Investigation on interfacial tension between n-butyl acetate+ water containing different ionic liquids.
 3. Investigation on the effect of Imidazolium based ionic liquids on the interfacial tension of n-butyl acetate-water including temperature, kind and concentration.
 4. Investigating on the influence of ionic liquids alkyl chain length on the liquid-liquid interfacial tension.
 5. Investigating on the influence of ionic liquids counter anion on the liquid-liquid interfacial tension.
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CURRENT RESEARCH PROJECTS:

- 1. Investigation on the interfacial tension between crude oil-water systems.**
 - 2. Investigation on the efficient ionic liquid as green surfactant applications in interfacial tension.**
 - 3. Investigation on applications of Gemini ionic liquid as new surfactant.**
 - 4. Investigation on the size of ionic liquid and applications of nano ionic liquid in interfacial tension.**
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WORKSHOP CERTIFICATES:

- ✓ **“Hyperchem, Chemcraft, Chemoffice”**
 - ✓ **“High-Performance Liquid Chromatography (HPLC)”**
 - ✓ **“Nano Technology, Synthesis and Analyzing Nano Materials”**
 - ✓ **“Safety in Chemistry Laboratory”**
 - ✓ **“Workshop of Searching and Finding ISI Articles ”**
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OTHERS ACTIVITIES:

- ✓ **Scientific committee member of 3rd Iranian Applied Chemistry Seminar, Bu-Ali Sina University**
- ✓ **Co-operation with Research Institute of Petroleum Industry for synthesizing the newest surfactant to decreasing Crude oil-Water interfacial tension**