

## Curriculum Vitae

### Nada A. Al-Jallal

---

Chemistry Dept. KSU

Address: P.O. Box 10581

Riyadh 11443

Saudi Arabia

E-mail: [najallal@ksu.edu.sa](mailto:najallal@ksu.edu.sa)

### Academic Qualifications

- 1- Ph.D in physical chemistry-Quantum &computational chemistry, 2006,  
KSU, Riyadh, Saudi Arabia (Conformational Study and Vibrational Spectra of Crown-6 and Its Complexes with Some Metals)
- 2- M.Sc in physical chemistry- Kinetics, 1998, KSU, Riyadh, Saudi Arabia  
(Study of Some Factors Affecting the Physical and Chemical Absorption of Gas in Liquid Batch Stirred Tank Reactors (STR))
- 3- B.Sc. in Chemistry, 1990, KSU, Riyadh, Saudi Arabia

### Work Experience

- 1- Vice Dean for Graduate Studies, KSU, 2016- now
- 2- Vice Chair of Chemistry Department, College of Science, KSU, 2012- 2016
- 3- Assistant Professor of physical chemistry, KSU, Riyadh, SA, 2006
- 4- Lecturer, chemistry department, KSU, Riyadh, SA, 1998-2006.
- 5- Teacher assistant, chemistry department, KSU, Riyadh, SA, 1992-1998.
- 6- Quality Control research technician, (King Faisal Specialized Hospita & Research Center, (KFSH), Riyadh, SA, 1990-1992.

### Academic Activities & Committees

- 1- Member of the *External Joint Supervision Program* (EJSP), 2012-now
- 2- Consultant, KSU Rector, Female Center for Scientific and Medical Colleges, 2012-2013
- 3- Assistant supervisor, Counseling and Advising Center- KSU, Female students, Malaz center. 2012-2013
- 4- Head of the Chemistry Laboratories & Equipment committee of the new Female Campus, 2009-now
- 5- Leader of the *Saudi Team of International Chemistry Olympiad* (STIChO), Consultant committee, Mawhiba, 2014-2015 . (Deputy Leader 2010-2013)
- 6- Coordinator of *Academic Accreditation committee* in chemistry Dept. (Female section), KSU, 2007- 2008.
- 7- Member of the examination committee, college of science, KSU, 2006

- 8- Supervisor of the cultural activities in the collage of science, 2001.
- 9- Member of the Laboratories and Instrumentation committee, 2000.
- 10- Coordinator of 101 chemistry labs, 1998

## Conferences and Symposiums

- 1- 4<sup>th</sup> international conference & exhibition. Chemistry in Industry, Bahrain, 2000. "Physical and Chemical Absorption of Oxygen in a Semi-Batch Stirred- Tank Reactor" - **N. A. AL-Jallal**, N.AL-Andis and Sh.I.El-Shawarbi.
- 2 - "Household Chemicals Symposium", KSU, Riyadh, 2003, organizing committee member.
- 3- Environmental Citizenship Symposium, (KACST& Aramco) Riyadh, 4-5 June, 2002, organizing committee member.
- 4- 8<sup>th</sup> International Technology, Education and Development Conference, (INTED) 2014, Valencia, Spain.

## Workshops & Training

- 1- KAUST Saudi Leadership Program (KSLP), 15-20 Aug. 2015. in partnership with Cornell University's SC Johnson School of Management.
- 2- "Essentials of Academic Leadership" Deanship of Skills Development at King Saud University, 15 April, 2015
- 3- "Using Google Tools in Teaching" Deanship of Skills Development at King Saud University, 12 May, 2015
- 4- "Conflict Management in Higher Education " Academic Leadership Center, (ALC), Ministry of higher education, Riyadh, Dec. 7, 2014.
- 5- "Qualitative Researchers" Deanship of Skills Development at King Saud University, 2-3 April, 2014
- 6- "Excellence in Undergraduate Education" Academic Leadership Center, (ALC), Ministry of higher education, Riyadh, 5-6 May, 2013
- 7- "The Essential Academic Leader" Academic Leadership Center, (ALC), Ministry of higher education, Riyadh, April 30 - May 1, 2013
- 8- "First International Conference on Assessment & Evaluation", (ICA), Organized by The National Center for Assessment (NCA), Qiyas, Riyadh, 2-4 Dec. 2012.
- 9- "Using Technology to Enhance Student Learning" International Conference for e-Learning and Distance Education, Organized by NCeL, Riyadh, 20 Feb. 2011.
- 10- "Electronic Structure of Molecules" PETRA, JORDAN, JANUARY 12-19, 2006, By Cornell University, Ithaca, New York.

- 11- "Teaching Chemistry in general education stages", Organizing committee member, KSU, Riyadh, Sciences & Medical Studies Center for Female Students, Riyadh, 12-14 April 2004.
- 12- "Computer Aided Learning Programs for Teaching & Research" Participated as an Instructor, KSU, Sciences & Medical Studies Center for Female Students, Riyadh, April 2003.
- 13- "Creating & Designing an Effective Scientific Poster Presentation" Participated as an Instructor, KSU, Sciences & Medical Studies Center for Female Students, Riyadh, May 2003
- 14- "Generator and cyclotron-produced short-lived radiopharmaceuticals", Dubai Hospital, April 1992.

## Publications

- 1- **N. A. Al-Jallal**, A. A. Al-Kahtani , and A. A. El-Azhary, "Conformational Study of the structure of free 18-crown-6 ", J. Phys. Chem. A, 109, 3694, **2005**.
- 2- Ramyah F. Radman, Amel M. Ismail and **N. A. Al-Jallal**, "Solvent effect on the kinetics of ring opening of isatin in water-ethanol mixtures" Progress in Reaction Kinetics and Mechanism, Vol. 35, No. 3, **2010** , 281-294(14)
- 3- Ramyah F. Radman , Amel M. Ismail and **N. A. Al-Jallal** " Kinetics of the Alkaline Hydrolysis of Isatin and N-methylisatin in Water and Water-N,N-dimethylacetamide Mixtures", JSCS, Vol. 14, 223, **2010**
- 4- **Nada A. Al-Jallal** and - Amel M. Ismail "Solvent Effect on the Amine-Catalyzed Ring-Opening of Azlactone in Acetonitrile-Water Mixtures" Asian J. Chem. Vol. 23, no.8, **2011**
- 5- **Nada A. Al-Jallal** and - Amel M. Ismail " Solvent Effects on the Kinetics of Amide Bond Cleavage in p-Chloro and p-Bromo Oxazolinones in Acetonitrile–Water Mixtures" J. Solution Chem. 41(12) , **2012**
- 6- Nada I. Albadri, **Nada A. Al-Jallal**, and Adel A. El-Azhary "Conformational Study of the Structure of Free 12-Thiacrown-4 and Some of its Cation Metal Complexes" Theor. Chem. Acc., Vol. 130, 919, **2011**
- 7- **Nada A. Al-Jallal**, Amel M. Ismail "Solvent Effects on the Kinetics of Amide Bond Cleavage in p-Chloro and p-Bromo Oxazolinones in Acetonitrile–Water Mixtures" J Solution Chemistry: Vol. 41, 12 , **2012**
- 8- A. El-Azhary, **N. Al-Jallal**, A. Al-Kahtani, N. Al-Badri, K. Al-Farhan and M. Al- Qunaibit. " Structure of crown ethers" AIP Conf. Proc. 1456, 223, **2012**
- 9- **Al-Jallal N. A**, Al-Badri NI, El-Azhary AA. "Experimental and theoretical study of the vibrational spectra of 12-thiacrown-4 and 18-thiacrown-6, evaluation of the performance of the different anharmonic force fields compared to the scaled quantum mechanical force fields" , Spectrochimica Acta Part A, Vol. 116, **2013**

- 10- A. El-Azhary, **N. Al-Jallal**, N. Al-Badri, K. Al-Farhan, and M. Al-Qunaibit "Conformational and vibrational analysis of 12-Thiacrown-4 and 18-Thiacrown-6 " VIII<sup>th</sup> Congress of the International Society of Theoretical Chemical Physics (ISTCP-VIII)-Budapest-Hungary 25-31 Aug **2013**
- 11- A. A. Al-Kahtani, **N. A. Al-Jallal**, A. A. El-Azhary. " Conformational and vibrational analysis of 18-crown-6-alkali metal cation complexes", Spectrochimica Acta Part A, Vol. 132, 70, **2014**.
- 12- A. El-Azhary, **N. Al-Jallal**, "Conformational and Vibrational Analysis of Dibenzo-18-Crown-6", 32<sup>ed</sup> European Congress on Molecular Spectroscopy, EUCMOS. P 99, 2014
- 13- **N. Al-Jallal**, A. El-Azhary "Conformational and Vibrational Analysis of 9-crown-3, 9-thiacrown-3 and 9-azacrown-3", ICCMSE 2015, 11<sup>th</sup> International Conference of Computational Methods in Sciences and Engineering 20-23 March, **2015**.
- 14- A. El-Azhary, **N. Al-Jallal**, "Vibrational Analysis of 9-thiacrown-3 and 9-azacrown-3", Spectrochimica Acta Part A, under publication.

## Thesis supervision & discussion

1. Ramyah F. Radman, "Kinetics and Thermodynamics of Indole-2,3-dione Ring-Opening by Alkali in Water and Water+Co-Solvent", M.Sc.Thesis, Chemistry Dep. collage of science, KSU. (Co.Supervisor), **2009**.
2. Maimonah N. Alharthi, "Medium effect on the amine-Catalysed Reaction of Azlactone in Water-Ethanol Mixtures", M.Sc. Thesis, Chemistry Dep. collage of science, KSU. (Member of Thesis Committee), **2011**
3. Nawal S. Alshamari, "Comparison of direct and indirect methods for the numerical solution of differential equations in chemical kinetics simulations", M.Sc. Thesis, Chemistry Dep. Collage of science, University of Hail, (Member of Thesis Committee) **2013**
4. Nada I. Albadri, "Conformational and vibrational study of 12-thiacrown-4", M.Sc.Thesis, Chemistry Dep. collage of science, KSU. ( Main Supervisor), **2014**
5. Ohud Ayidh Almutairi, "Improvement of stochastic simulation of chemical reactions by combining "Sorting direct" and "Net-event" methods" M.Sc.Thesis, Chemistry Dep. collage of science, KSU. (Co. Supervisor), **2015**.
- 6- Tahani Saad Al Qarni, " Insertion of carbon dioxide into cyclic ethers by carbon supported lacunary heteropolyanions as porous catalysts" Ph.D. Thesis, Chemistry Dep. collage of science, KSU. (Co. Supervisor), by 2017