

## ***Nada A. AL-Sakhen***

Place & Date of Birth: Kuwait, 1980

Nationality: Jordanian

Address: Room 211, Chemistry Department, The Hashemite University

PO Box 330117, Zarqa, 13133 Jordan

Telephone: +962 (5) 3903333 ext. 4572

Email: nada-alsakhen@hu.edu.jo

ندى أحمد حسين الساخن

مكان وتاريخ الولادة: الكويت 1980

الجنسية: الأردنية

العنوان: الزرقاء، المملكة الأردنية الهاشمية

### **Academic Website Academic Credentials**

#### **MSc, Chemistry, (Sep.2002 – May.2007)**

Hashemite University, Zarqa, Jordan

Accumulated Average: 3.34/4.00, V.good 1st Honor Degree

• Supervisor: Dr. Musa I. El-Bargouthi, Co-supervisor: Dr. Ayman Issa

**Title of dissertation:** Applying Molecular Dynamic Simulations based on the Continuum Solvation Models for the Prediction of Free Energy of Cyclodextrins Inclusion Complexes

#### **BSc, Chemistry, (Sep.1989 – Jun.2002)**

Hashemite University, Zarqa, Jordan

Accumulated Average: 3.04/4.00, V.good

---

### **Research Interests**

- Molecular dynamics simulations and free energy calculations of cyclodextrin inclusion complexes
  - Studying the extent and assessing the modes of solubility enhancement exerted by aqueous cyclodextrin on some water insoluble compounds of pharmaceutical interest.
- 

### **Professional Experience**

#### **Lecturer, (Currently, since 2013)**

Department of Chemistry, The Hashemite University, Zarqa, Jordan

#### **Research and teaching assistant, (sep.2009 – May.2013)**

Department of Chemistry, The Hashemite University, Zarqa, Jordan

#### **Graduate Teaching Assistant, (Oct.2002 – Jun.2007)**

Department of Chemistry, Hashemite University, Zarqa, Jordan

I assisted in teaching the following laboratories:

General Chemistry Laboratory (1), General Chemistry Laboratory (2), Engineering Chemistry Laboratory, Analytical Chemistry Laboratory, Instrumental Methods of Analysis and Physical Chemistry Laboratory.

Analyst, (Jun.2002 – sep.2002)

In Arab Pharmaceutical Manufacturing (APM), Salt, Jordan

---

### **Publications List:-**

- El-Barghouthi M. I., Jaime C., **Al-Sakhen N. A.**, Issa A. A., Abdoh A. A., Al Omari M. M., Badwan A. A. and Zughul, M.B. (2008) Molecular Dynamics Simulations and MM-PBSA Calculations of the Cyclodextrin Inclusion Complexes with Some Organic Compounds. *Journal of Molecular Structure: THEOCHEM*, 853, 45-52.
- El-Barghouthi M. I., Jaime C., Akielah R. E., **Al-Sakhen N. A.**, Masoud, N. A., Issa A. A., Badwan A. A. and Zughul, M.B. (2009) Free energy perturbation and MM/PBSA studies on inclusion complexes of some structurally related compounds with B-cyclodextrin, *Supramolecular Chemistry*, 2 , 603-610.
- Lama D. Malhis , Khaled Bodoor , Khaleel I. Assaf , **Nada A. Al-Sakhen** , Musa I. El-Barghouthi. (2015) Molecular Dynamics Simulation of a Cucurbituril Based Molecular Switch Triggered by pH Changes, *Computational and Theoretical Chemistry* ,1066 , 104–112.
- Samer K. Albdallah, Khaleel I. Assaf , Khaled Bodoor., **Nada A. Al-Sakhen** Lama D. Malhis, Akef I. Alhmaideen · Musa I. El-Barghouthi. (2018) Cucurbit[7]uril Inclusion Complexes with Benzimidazole Derivatives: A Computational Study, *journal of solution chemistry*, 47, 1768–1778

### **Languages**

- **Arabic:** Native language
- **English:** Very good in reading, writing, understanding and conversation

### **References**

- **Prof. Musa I. El-Barghouthi**  
Professor  
Chemistry Department, Hashemite University  
P.O. Box 330117, Zarqa, 13133 Jordan  
Tel: +962 (5) 3903333 ext. 4518, Email: [musab@hu.edu.jo](mailto:musab@hu.edu.jo)
- **Dr. Ala' F. Eftaiha**  
Assitant Professor  
Chemistry Department, Hashemite University  
P.O. Box 330117, Zarqa, 13133 Jordan  
Tel: +962 (5) 3903333 ext. 4530, Email: [alaa.eftaiha@hu.edu.jo](mailto:alaa.eftaiha@hu.edu.jo)

↓