



Abdel Aziz Q. M. Jbarah C.V.



## CURRICULUM VITAE

**Abdel Aziz Qasem Mohammad Jbarah**

April, 2022



### PERSONAL

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*Place of Birth* Jordan  
*Date of Birth* November 27, 1973  
*Marital Status* Married  
*Nationality* Jordanian  
*Work Address* Department of Chemistry, College of Science, Al-Hussein Bin Talal University, Ma'an, Jordan. Phone: +962-3-2179000 Ext.:6339, E-mail: aajbarah@ahu.edu.jo  
*Academic Rank* Associate Professor (October, 2021)  
*Permanent Address* 13710 Al-Rusaifa, Jordan. Cell Phone:+962-789561050, E-mail: abed\_jbr@yahoo.com

### ACADEMIC QUALIFICATIONS

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2002 - 2006 **Ph.D.**, Physical Chemistry, Chemnitz University of Technology, Chemnitz, Germany.  
1997 - 1999 **M.Sc.**, Analytical Chemistry, Mu'tah University, Karak, Jordan.  
1993 - 1997 **B.Sc.**, Chemistry, Mu'tah University, Karak, Jordan.

### SPECIALTY

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*General Specialization:* Chemistry  
*Specialization :* Physical Chemistry

### CAREER HISTORY

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October, 2021 - Present **Associate Professor**, Department of Chemistry, College of Science, Al-Hussein Bin Talal University, Ma'an, Jordan.  
April, 2019 - October, 2021 Assistant Professor, Department of Chemistry, College of Science, Al-Hussein Bin Talal University, Ma'an, Jordan.  
August, 2014 - September, 2017 Assistant Professor, Department of Chemistry, Faculty of Science, Islamic University in Madinah, Al-Madinah Al-Munawarah, Saudi Arabia  
February, 2011 - August, 2014 Assistant Professor, February 2011-August 2014, Chemistry Department, Faculty of Science, Northern Borders University, Saudi Arabia



Abdel Aziz Q. M. Jbarah C.V.



October, 2007 - January, 2011

Assistant Professor, Chemistry Department, Faculty of Science, Al-Hussein Bin Talal University, Ma'an, Jordan

## ADMINISTRATIVE EXPERIENCE

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### *Positions*

- Dean's Assistant for Quality Assurance and Development Affairs–College of Science, Al-Hussein Bin Talal University, 2020-present

### *Committees*

- Social Committee, Chemistry Department, Al-Hussein Bin Talal University, (2020-present)
- Tender committee, Chemistry Department, Al-Hussein Bin Talal University, (2019-2020)
- Curriculum Committee, Chemistry Department, Al-Hussein Bin Talal University, (2019-2020)
- Quality Assurance Committee, College of Science, Al-Hussein Bin Talal University, (2021-present)
- Social Assurance Committee, College of Science, Al-Hussein Bin Talal University, (2020-present)
- Strategic planning Committee, College of Science, Al-Hussein Bin Talal University, (2020-present)

## HONORS, SCHOLARSHIPS, AWARDS AND GRANTS

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- Three scientific research projects supports from the Deanship of Scientific Research at Northern Borders University, 2012-2013, Saudi Arabia.
- German Research Foundation (DFG), 3 months research funds between Jun 2010 to september 2010, Germany.
- World University Service supported me with 10000 Euro as a research funds in December 2010, Germany.
- German Research Foundation (DFG), 18 months research funds, during my PhD study at Chemnitz University of Technology, Germany.
- The government of the Free State of Saxony (Germany) supported me two years as a scholarship for the Graduate students during my PhD study at Chemnitz University of Technology, Germany
- Full scholarship from Mu'tah University (Jordan) during my MSc study.

## PROFESSIONAL MEMBERSHIPS AND SERVICES

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### *Membership(s)*

- Jordanian Chemical Society

### *Service(s)*

- Journal of The Chemical Society of Pakistan



## RESEARCH INTEREST

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- Spectroscopy (IR and Raman)
- Electrochemistry (Cyclic Voltammetry )
- Spectroelectrochemistry studies (In situ UV-Vis. and Surface-enhanced Raman scattering (SERS))
- Computational chemistry studies and modelling
- Conducting Polymers
- Self-Assembled Monolayers (SAMs)

## PUBLICATIONS

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### *Peer-reviewed journal articles*

- Water-soluble species and heavy metal contamination of the petroleum refinery area, Jordan, **A. A. Q. Jbarah**, K. A. Momani, Q. M. Jaradat, A. A. Omari, and I. F. Al-Momani, *Journal of Environmental Monitoring*, 4 (2002) 990.
- Fractionation and sequential extraction of heavy metals in street dust of an industrial area, Jordan. K. A. Momani, Q. M. Jaradat, **A. A. Q. Jbarah**, I. F. Al-Momani, *Abhath Al-Yarmouk, Basic Sciences and Engineering*, 12(2B) (2003) 503.
- Inorganic analysis of dust fall and office dust in an industrial area of Jordan, **A. A. Q. Jbarah**, Q. M. Jaradat, and K. A. Momani, *Environmental Research*, 96(2) (2004) 139.
- A Comparative Spectroelectrochemical Study of the Redox Electrochemistry of Nitroanilines, **A. A. Jbarah** and R. Holze, *Journal of Solid State Electrochemistry*, 10 (2006) 360.
- The Electrosorption of 1,2,3-Triazole on Gold as Studied with Surface Enhanced Raman Spectroscopy, **A. A. Jbarah**, A. Ihle, K. Banert, and R. Holze, **Journal of Raman Spectroscopy**, 37 (2006) 123.
- 2-Nitro-1,4-diaminobenzene-Functionalized Poly(vinyl amine)s as Water-Soluble UV-Vis-Sensitive pH Sensors, I. Roth, **A. A. Jbarah**, R. Holze, M. Friedrich, and S. Spange, *Macromoleculuar. Rapid Communications*, 27 (2006) 193.
- A Spectroelectrochemical Study of the Electrosorption of 4-Isopropylsulfanylmethyl-1,2,3-Triazole on Gold, **A. A. Jbarah**, and R. Holze, *Vibrational Spectroscopy*, 44 (2007) 142.
- Spectroelectrochemical studies of Self Assembled Monolayers of Biphenyl Ethynyl Thiols on Gold Electrodes, **A. A. Jbarah**, K. Rößler H. Lang and R. Holze, *Vibrational Spectroscopy* 49 (2009) 162.
- A Comparative Spectroelectrochemical Study of the Redox Electrochemistry of N-(polyvinylamine)-Substituted-o-Nitroaniline, **Abdelaziz Jbarah** and R. Holze, *ECS Transactions*, 28 (2010) 19.
- Reactions of Pd<sup>2+</sup> and Pt<sup>2+</sup> with Pyrrolidinedithio Carbamate and Cystine Ligands: Synthesis and DFT Calculations, E. Al-Razaq , N. Buttrus, W. Al-Kattan, **Abdel Aziz Jbarah** and M. Almatarneh, *Journal of Sulfur Chemistry*, 32 (2011) 159



- Mutlaq Al-jahdali, **Abdel Aziz Jbarah** and Mohamed Helal, Electrochemical Synthesis, Characterization and Electrochemical behaviour of New Conducting Copolymers of 2-methoxyaniline-co-2,3-dihydrothieno[3,4-b][1,4]dioxine-2-carboxylic acid, *Chemistry and Materials Research*, 3 (2013) 19.
- Mutlaq Al-jahdali, **Abdel Aziz Jbarah** and Amneh Ahmed, Electrochemical Synthesis of o-anisidine – o-aminophenol Copolymers, *Chemistry and Materials Research*, 3 (2013) 1.
- Abdulsamad Marghilanai and **Abdel Aziz Jbarah**, Computational Studies of 3d-Metal Monofluorides Using Density Functional Theory Calculations Method, *Chemistry and Materials Research*, 3 (2013) 28.
- E. Al-Razaq, N. Buttrus, E. Mohammed and **Abdel Aziz Jbarah**, Synthesis and DFT Calculations of Dinuclear Complex of  $\text{Co}^{2+}$ ,  $\text{Ni}^{2+}$  and  $\text{Cu}^{2+}$  with Macrocyclic Schiff base Ligands, *Oriental Journal of Chemistry* 32 (1) (2016) 137-148.
- Perihan A. Khalaf-Allaa, Mohamed M. Shoukry, **Abdel Aziz Jbarah**, Rudi van Eldik, Base hydrolysis of  $\alpha$ -amino acid esters catalysed by  $[\text{Pd}(\text{N-ethylethylenediamine})(\text{H}_2\text{O})_2]^{2+}$ . Kinetic study and DFT calculations, *Inorganica Chimica Acta*, 458 (2017) 181-189.
- Mohamed Shoukry, Safaa Hassan and **Abdel Aziz Jbarah**, Coordination compound of dimethyltin(IV) with N,N,N',N'-Tetraethylenediamine: Speciation and Theoretical Approach, *J. Mex. Chem. Soc.* 2020, 64(2), 24-43.
- Ali Mahmood Ali, Tagreed H. Al-Noor, Eid Abdalrazaq, and **Abdel Aziz Qasem Jbarah**, Synthesis and DFT study of the complexation of Schiff Base derived curcumin and L-Tyrosine with Al(III), Ag(I), and Pb (II) Metal Ions, *Indonesian Journal of Chemistry*, 21 (3), 2021, 708 – 724.
- **Abdel Aziz Qasem Jbarah**, The Electrosorption of 3-bromo-2-nitrothiophene on Gold as Studied with Surface-Enhanced Raman Spectroscopy, *Journal of Chemical Sciences*, 133 (2), 2021, 1-11

#### **Books and Book chapters**

- Experimental Physical Chemistry, Laboratory Manual, Abdel Aziz Jbarah, in preparation

#### **CONFERENCES AND PROCEEDINGS**

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- 12<sup>th</sup> Seminar des Arbeitskreises “Elektrochemie in Sachsen”, TU Bergakademie, Freiberg, Germany, 22. April 2005, seminar presented: Spectroelectrochemistry of Redox Processes of Nitroanilines, Abdel Aziz Jbarah and Rudolf Holze (for details see <http://www.tu-chemnitz.de/akes/akes12.php>).
- Graduate Student Seminar. TU-Chemnitz. October 2003. Seminar presented: Spectroelectrochemistry of Substituted Anilines.
- 217<sup>th</sup> ECS Meeting - Vancouver, Canada, April 27, 2010: presentation title: A Comparative Spectroelectrochemical Study of the Redox Electrochemistry of N-(polyvinylamine)-Substituted-o-Nitroaniline" by Abdel Aziz Jbarah (Abstract number 1749).



## **TEACHING**

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### ***Courses Taught-undergraduate***

- Physical Chemistry 1, Physical Chemistry 2, Physical Chemistry 3, Physical Chemistry Laboratory, Mathematics for Chemistry Students, General Chemistry 1, General Chemistry 2, General Chemistry 1 laboratory, General Chemistry 2 laboratory (Al-Hussein Bin Talal University)
- Physical Chemistry of Polymers, Chemical Thermodynamics, Chemical kinetics, Quantum chemistry, Molecular Spectroscopy, Industrial Chemistry, Electrochemistry (Islamic University in Madinah, Northern Borders University)

## **SKILLS**

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### ***Languages***

- Arabic (native), English (excellent)

### ***Computer Programs***

- Microsoft Office and Tools, SPSS, OriginLab, Gaussian03, GaussView6