**Curriculum Vitae**

**Abdel Aziz Qasem Mohammad Jbarah**



March, 2021

**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*** | Assistant Professor (October, 2007) |
| ***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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| April, 2019 - Present | **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 |
| 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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* 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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

***Membership(s)***

* Jordanian Chemical Society

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| ***Service(s)*** |

* + Journal of The Chemical Society of Pakistan

**Research Interest\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* 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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

***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, Macromolecuar. *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 Pd2+ and Pt2+ 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 Co2+, Ni2+ and Cu2+ 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 α-amino acid esters catalysed by [Pd(N-ethylethylenediamine)(H2O)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*, “accepted in February 22, 2021”
  + **Abdel Aziz Qasem Jbarah**, The Electrosorption of 3-bromo-2-nitrothiophene on Gold as Studied with Surface-Enhanced Raman Spectroscopy, *Journal of Chemical Sciences*, “accepted in March 08, 2021”

***Books and Book chapters***

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

**Conferences And Proceedings \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* 12th 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.
* 217th 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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

***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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

***Languages***

* Arabic (native), English (excellent)

***Computer Programs***

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