

CURRICULUM VITAE

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Education:

1. **PhD. in Inorganic and Analytical Chemistry**, Al-Azhar University, Egypt January 2012. With the title “**Synthesis and Study of Some Drug Complexes**”.
2. **M.Sc. in Chemistry**, Mut’ah University Jordan 2000. With the title “**synthesis and properties of novel aromatic polyamides containing 1,2,3- triazole ring structure**”.
3. **B.Sc. in Chemistry**, Mut’ah University, Jordan 1997.

Teaching and Administrative Experience:

- 1- Professor at Al-Hussein Bin Talal university 11/1/2023 – until now
- 2- Associate Professor at Al-Hussein Bin Talal university 10/1/2018 – 11/1/2023
- 3- Assistant Professor at Al-Hussein Bin Talal university 9/9/2012 – 10/1/2018.
- 4- Headmaster of chemistry department from 9/9/2014 -9/9/2016.
- 5- Lecturer at health institute in Holly Makkah (KSA) 2001- 2003
- 6- Secondary school teacher / Makkah from 2003-2008.
- 7- Secondary school teacher / Jordan 1998- 2001.

Research Summary:

- 1- Suzan Matar, Abdel-Aziz Abu-Yamin, Deeb Taher, Ibrahim A. M. Saraerah, Mahmoud Salman, Sultan A. Saghir, Fatima Ahmad, Sajeda Matar, Lina Buqa'en & Ali Elrashidi. Synthesis, characterization, and biological activities of two new pyrazole Schiff base derivatives. *Sci Rep* (**2026**).
<https://doi.org/10.1038/s41598-026-43254-9>
- 2- EA Abdalrazaq, **AA Abu-Yamin**, D Taher, AE Hassan, AA Elhenawy. Zn (II) and Cd (II) complexes of dithiocarbamate ligands: synthesis, characterization, anticancer, and theoretical studies. *Journal of Sulfur Chemistry*, **2024**, 45 (5), 714-739.
<https://doi.org/10.1080/17415993.2024.2384751>
- 3- Muawia M. Alqasaimeh, **Abdel-Aziz M. Abu-Yamin**, Suzan A. Matar, Ibrahim A. Sarairah, Mahmoud M. Salman, Randa M. Al-As'ad. Synthesis and characterization of a new Schiff-base derivative as an optical nickel (II) chemosensor and its antimicrobial activity. *Journal of Photochemistry & Photobiology, A: Chemistry*, **2024**, 447, 115277.
<https://doi.org/10.1016/j.jphotochem.2023.115277>
- 4- Jibril I. Al-Hawarin, **Abdel-Aziz Abu-Yamin**, Abd Al-Aziz A. Abu-Saleh, Ibrahim A. M. Sarairah, Mansour H. Almatarnah, Mahmood Hasan, Omar M. Atrooz and Y. Al-Douri, Synthesis, Characterization, and DFT Calculations of a New Sulfamethoxazole Schiff Base and Its Metal Complexes, *Materials*, **2023**, 16 (14), 5160, <https://doi.org/10.3390/ma16145160>
- 5- Randa M. Al-As'ad, **Abdel-Aziz Abu-Yamin**, Marcus Korb, Khaled Al Khalyfeh, Ismael A. Elayan, Mansour H. Almatarnah, Hassan K. Juwhari, Hazem Amarne, Deeb Taher, Zakariyya Ish-taiwi, and Heinrich Lang, Synthesis, Characterization, Crystal Structure and DFT Calculations of Dysprosium^{III} - (E)-Ethyl-4-(2-Hydroxybenzylidene Amino)Benzoate. *Journal of Molecular Structure*, **2023**, 1280, 135061, <https://doi.org/10.1016/j.molstruc.2023.135061>

- 6- Muawia Alqasaimah, **Abdel-Aziz Abu-Yamin**, Suzan Matar, Khaled Al Khalyfeh, Tobias Rüffer, Heinrich Lang, Ibrahim A.M. Saraerah, Mahmoud Salman, Pawel Figield Grzegorz Leniec, Hazem Amarne, Deeb Taher, Preparation, spectroscopic investigation, biological activity and magnetic properties of three inner transition metal complexes based on (2-((p-tolylimino)methyl)phenol) Schiff base, *Journal of Molecular Structure*, **2022**, 1274 , 2 134458,
<https://doi.org/10.1016/j.molstruc.2022.134458>
- 7- **Abdel-Aziz Abu-Yamin**, Deeb Taher, Marcus Korb, Khaled Al Khalyfeh, Zakariyya Ishtaiwi, Hassan K. Juwhari, Wissam Helal, Hazem Amarne, Sami Mahmood, Reza Loloee, Yaser A. YouSef, Asma Ghazzy, Heinrich Lang. Synthesis, chemical and physical properties of Lanthanide(III) (Nd, Gd, Tb) complexes derived from (E)-ethyl 4-(2-hydroxybenzylideneamino)benzoate. *Polyhedron*, **2022** , 222, Article 115906.
<https://doi.org/10.1016/j.poly.2022.115906>
- 8- **Abdel Aziz Abu-Yamin**, Deeb Taher, Hassan K. Juwhari, Ibrahim Al-Saraerah and Muawia Alqasaimah. Triply Bridged Binuclear lanthanides- Zwitterion complexes: Synthesis and characterization of (Gd(III), Nd(III), Sm(III)) complexes. *Journal of coordination chemistry*, **2022**, 75 (5-6), 781-795. <https://doi.org/10.1080/00958972.2022.2081078>
- 9- **Abdel Aziz Abu-Yamin**, Abdel Aziz Qasem Mohammad Jbarah , Khaled Al Khalyfeh , Suzan Matar, Muawia Alqasaimah, Tobias Rüffe, Heinrich Lang, Crystal structure, spectroscopic studies, DFT calculations, and biological activity of 5-bromosalicylaldehyde-based Schiff bases. *Journal of Molecular Structure*, **2022**, 1262, Article 132976.
<https://doi.org/10.1016/j.molstruc.2022.132976>
- 10- **Abdel-Aziz Abu-Yamin**, Maisa Siddiq Abduh, Sultan Ayesh Mohammed Saghir and Naif Al-Gabri, Synthesis, Characterization and Biological Activities of New Schiff Base Compound and Its Lanthanide Complexes. *Pharmaceuticals* **2022**, 15 (4), 454.
<https://doi.org/10.3390/ph15040454> .
- 11- **Abdel-Aziz Abu-Yamin**, Synthesis, characterization and crystal structure of LnIII - (1E,2E)-3-(furan-2-yl)-N-(4H-1,2,4-triazol-4-yl)prop-2-en-1-imine. *Journal of coordination chemistry* **2022**, 75 (3-4), 401-412. <https://doi.org/10.1080/00958972.2022.2051497>
- 12- **Abdel Aziz Abu-Yamin** and Ala'a Aldin Abuzarqa, Development and method validation for detection the concentration of Benzocaine Schiff base by high performance liquid chromatography, *Journal of Al-Hussein University for Research* **2022**, 8 (2), 690-706.

<https://journal.ahu.edu.jo/PreviousIssuesInner.aspx?ID=64>

- 13- **Abdel-Aziz Abu-Yamin**, Synthesis, Characterization and Crystal Structure of Samarium(III)- (E)-1-phenyl-N-(4H-1,2,4-triazol-4-yl)methanimine Complex. *Jordan Journal of Chemistry*, **2021**, 16(2), 87–94. <https://doi.org/10.47014/16.2.5>
- 14- **Abdel-Aziz Abu-Yamin**, Mohammad Elnawawy, Rabie Saad Farag and Ibrahim Al-Sbbah, Synthesis and characterization of benzocaine Schiff base and its Cobalt complex, *International Journal of Pharmaceutical Sciences and Research*, **2021**; 12(2): 1009-1013.
[http://dx.doi.org/10.13040/IJPSR.0975-8232.12\(2\).1009-13](http://dx.doi.org/10.13040/IJPSR.0975-8232.12(2).1009-13)
- 15- Ibrahim A. M. Saraireh, Mohammed noor Altarawneh, Jibril Alhawarin, Mahmoud Salman, **Abdel Aziz Abu-Yamin**, and Randa Alasad. Synthesis and Characterization of β -Diketimine Schiff Base Complexes with Ni(II) and Zn(II) Ions: Experimental and Theoretical Study. Hindawi Journal of Chemistry **2019**, Volume 2019, Article ID 4561013, 9 pages, <https://doi.org/10.1155/2019/4561013>
- 16- **Abdel Aziz Abu-Yamin**, Murad A. AlDamen, Mutasem O.Sinnokrot, Hassan K. Juwhari , Mahmoud Salman, Ibrahim Sarairah, JibrilAl-hawarin and Mohammad S.Mubarak. Characterization, Crystal Structure and Fluorescence of Nanosized Samarium Schiff-base Complex. Journal of Structural Chemistry, **2018**, 59 (8), 1935-1943.
<https://doi.org/10.1134/S0022476618080243>
- 17- Mahmoud Salman, **Abdel Aziz Abu-Yamin**, Ibrahim Sarairah, Alhawarin Ibrahim and Murad A. AlDamen. The crystal structure of ethyl 4-((2-hydroxybenzyl)amino)benzoate, a Schiff base, C₁₆H₁₇NO₃). Zeitschrift fur Kristallographie - New Crystal Structures **2017**, 232(4), 631–632
<https://doi.org/10.1515/ncrs-2016-0383>
- 18- Mahmoud Salman, Ayman A. Issa, Ibrahim Sarairah and **Abdel Aziz Abu-Yamin**. Synthesis and Spectroscopic Characterization of Tris(hydroxymethyl) amino-methane Proton Transfer Complexes with Acidic π -Acceptors). Jordan Journal of Chemistry, **2016**, 11 (2): 85-98
- 19- Khaleel A. Abu-Sbeih and **Abdel Aziz Abu-Yamin**. Reduced Schiff base zinc complexes as proposed models of the active site of the dinuclear zinc enzyme A. Aminopeptidase. Journal of Chemical and Pharmaceutical Research, **2014**, 6(7), 162-171.
- 20- Basel. M. Saida, **Abdel Aziz Abu-Yamin** and Ibrahim Saraireh. Synthesis of 2-{(Z)-[(4-methylphenyl)imino]methyl}phenol Schiff base. Journal of Chemical and Pharmaceutical Research, **2013**, 5(12), 1537-1541.
- 21- **Abdel Aziz Abu-Yamin**, Mahmoud Salman and Ibrahim Saraireh. Proton transfer complexes based on some π -acceptors having acidic protons with tyramine donor: Synthesis and spectroscopic characterizations. Journal of Chemical and Pharmaceutical Research, **2013**, 5(3), 33-41.

- 22- M. A. El-Nawawy, R. S. Farag, I. A. Sabbah, and **A. M. Abuyamin**, "Synthesis ,spectroscopic, thermal studies and biological activity of a new sulfamethoxazole Schiff base and its copper complex", International journal of pharmaceutical sciences and research, **2011**, 2(12), 3143-3148. DOI: [://dx.doi.org/10.13040/IJPSR.0975-8232.2\(12\).3143-48](https://dx.doi.org/10.13040/IJPSR.0975-8232.2(12).3143-48)
- 23- M. A. El-Nawawy, R. S. Farag, I. A. Ssbah and **A. M. Abuyamin**, "Spectroscopic Studies, Crystal Structure and Biological Activity of {ethyl 4-(2-hydroxybenzylidene-amino) benzoate} Schiff Base and its Copper Complex". New York Science Journal, **2011**, 4(9), 78- 82.

Articles under processing:

1. Synthesis, characterization and biological Activity of new Sulfamethoxazole-based Schiff bases.
2. Synthesis and characterization of a new dual-chemosensor for Al(III) and Cr(III) ions based on Schiff base derivative.
3. Synthesis, Characterization, and Biological Activities of Two new pyrazole Schiff base Derivatives

List of Courses Taught at Al-Hussein Bin Talal University:

- ❖ Inorganic chemistry 1
- ❖ Inorganic chemistry 2
- ❖ Inorganic chemistry 3
- ❖ Industrial inorganic chemistry 1
- ❖ Descriptive chemistry of the elements
- ❖ Practical Inorganic chemistry
- ❖ Analytical chemistry 1
- ❖ Analytical chemistry 2
- ❖ Practical analytical chemistry
- ❖ General chemistry 1
- ❖ General chemistry 2
- ❖ General chemistry for nursing students
- ❖ Practical general chemistry 1
- ❖ Practical general chemistry 2
- ❖ Applied Chemistry (master's degree)

Training courses:

1. ICDL.
2. Intel
3. Several Courses in teaching strategies
4. High Performance Liquid Chromatography course at Jordan university

- a. and now I'm a trainer for HPLC courses.
- 5. Development of the competencies of faculty members
- 6. The correct foundations in the teaching process

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