



*Ain Shams University
Women's faculty for Arts,
Science and Education
Chemistry Department*

CURRICULUM VITAE

*Azza Aly Aly Abou- Hussein
Professor of Inorganic Chemistry*

Personal Information

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Scientific Qualifications

- **Professor (2012)**, in Inorganic Chemistry, Women's Faculty for Arts, Science and Education.
- **Associate Professor (2006)**, in Inorganic Chemistry, Women's Faculty for Arts, Science and Education.
- **Ph.D. (1999)**, in Inorganic Chemistry, Women's Faculty for Arts, Science and Education). Thesis Title: "*Tetradentate Schiff Base Metal Complexes from Structure to Reactivity*".
- **M.Sc. (1992)**, in Inorganic Chemistry, Women's Faculty for Arts, Science and Education. Thesis Title: "*Synthesis and characterization of some Molecular complexes formed with nitrogen or oxygen Donors*".
- **B.Sc. (1988)** In chemistry, Women's Faculty for Arts, Science and Education, Ain Shams University

Employment History

- **Professor** in Inorganic Chemistry, Chem. Dept., Women's Faculty, Ain Shams University, Cairo, Egypt, **November, 2012.**
- **Associate Professor** in Inorganic Chemistry, Chem. Dept., Women's Faculty, Ain Shams University, Cairo, Egypt, **April, 2006.**
- **Lecturer** in Inorganic Chemistry, Chem. Dept., Women's Faculty, Ain Shams University, Cairo, Egypt, October, **1999-2006.**
- **Teaching Assistant** in Inorganic chemistry, Chem. Dept., Women's Faculty, Ain Shams University, Cairo, Egypt, October, **1992-1999.**
- **Demonstrator** in Inorganic chemistry, Chem. Dept., Women's Faculty, Ain Shams University, Cairo, Egypt, October, **1989-1992.**

Honorary Awards

State of encouragement prize from the Academy of Scientific Research and Technology, Cairo, Egypt (ASRT) for the Academic Year, 2006.

Tasks from the University

- A member of the academic research strategy follow-up committee at ASU(2008-2009)
- A member of the Internationally published academic research reward committee. (2008-2009)
- Participates in the assessment of projects financed by the ministry of international cooperation following standards of the ministry of higher education. (2008-2009)
- Participates in the assessment of projects financed by the academy of scientific research and ASU. (2008-2009)
- Following up periodically scheduled reports of academic research financed by ASU. (2008-2009)
- A member of the up dating of faculty published academic research database committee. (2008-2010)
- ASU coordinator in charge of monitoring digital library use training sessions on the premises of ASU, supervised by digital library unit at the supreme council of universities. (2008-2010)
- A member of the foreign affairs committee at ASU. (2008-2009)
- A member of the Ranking Committee at ASU. (2009-2010)
- Oracle University Course (Introduction to SQL, Program with PL/SQL, Administration Workshop I, Administration Workshop II) April 2007.

Work shops

- Oracle Database 10g Administrator Certified Associate, April. 2008.
- Oracle university course, April 2007.
- Continuous Improvement and Qualifying for Accreditation Project. February,2008
- Participating in FP7: How to write a Competitive Proposal – The Research, Development and Innovation Programmer. A Programme of the Ministry of Higher Education and Scientific Research funded by the European Union, September 2008.
- 4th QS University Ranking and Evaluation Workshop, Singapore, November 2010.
- Preparation of exam paper and automatic correction, Centre for Integrated Studies, Research and Services, faculty of women for Arts, Science and Education, Ain Shams University,13-16/11/2022.

Scholarship and Scientific Activities

- Scholarship Austria, Vienna University for Technology, starting from October 2007 to January 2008.
- Scholarship, Austria, Vienna University for Technology, starting from July 2008 to August 2008.
- Visiting Professor to Vienna University for Technology, starting from July 2009 to August 2009.
- Visiting Professor to Vienna University for Technology, starting from January 2011 to February 2011.
- Visiting Professor to Vienna University for Technology, starting from July 2012 to August 2012.
- Visiting Professor to Vienna University for Technology, starting from January 2014 to February 2014.
- Visiting Professor to Vienna University for Technology, starting from 1st July 2015 to 31 July 2015.
- Visiting Professor to Vienna University for Technology, starting from 18 January 2018 to 3 February 2018.
- Visiting Professor to Vienna University for Technology, starting from 23 January 2020 to 13 February 2020.

Scientific Conferences

- The First International Congress of Pharmaceutical and Drug Industries, National Research Center, 24- 26, March (2003).
- The 7th International Conference on Chemistry and its Role in Development (7th ICCRD), Mansoura University, 14-17, April (2003).
- The 7th Arab International Conference on Polymer Science & Technology and the 3rd Arab Conference on Materials Science, National Research Center, 5-9, October (2003)
- Biannual Conference on Chemistry, Chemistry for Better Future, Department of Chemistry, Faculty of Science, Cairo University, March,1-4 (2004).
- The 8th International Conference on Chemistry and its Role in Development (8th ICCRD), Mansoura University, 14-17, April (2005).
- The Sixteenth Egyptian Chemical Conference, National Research Center, 11-14, September (2006).
- 10th Ibn Sina International Conference on pure and Applied Heterocyclic chemistry, Luxor,17-20 (2007).
- The Eighth International Symposium on New Trends in Chemistry and Second Congress of the Federation of Africa Societies of Chemistry (FASC), Chemistry and National Development, Cairo, 3-7 January, (2009).
- 6th QS-Asia Pacific Professional Leaders In Education Conference And Exhibition, 17-19 November (2010).
- KISTEP-ISTIC R&D Management Program for High Level Policy Markers, held from November 7th to 12th ,(2010) in Cairo, Arab Republic of Egypt.

Information and Communication Technology Project

- 1) Using Computer and Managing Files, Information & Communication Technology Project ICTP, April 2006.
- 2) Concepts of IT, Information & Communication Technology Project ICTP, April 2006.
- 3) Word Processing, Information & Communication Technology Project ICTP, June 2006.
- 4) Spreadsheets, Information & Communication Technology Project ICTP, January 2007.
- 5) Presentations, Information & Communication Technology Project ICTP, May 2007.
- 6) Information and Communication, Information & Communication Technology Project ICTP, May 2007.
- 7) Database, Information & Communication Technology Project ICTP, June 2007.
- 8) Maintenance & Protection, Information & Communication Technology Project ICTP, September 2007.

List of Publications

- 1-Mono and Di-Nuclear Complexes Of Cu(II) and Cu(I) with Tetradentate Schiff Bases; Their Biological and Potential Application S.H. Ataiwa and [A.A. Abu-Hussen](#), **Egyptian Journal of Chemistry**, **46(5)**, 685-701 (2003).
- 2- Metal Uptake By a Novel Bidentate Thiosemicarbazide Chelating Polymer, [A. A. Abu-Hussen](#), S. S. El-Kholy and M. Zaki El-Sabee, **Journal of Coordination Chemistry**, **57(12)**, 1027 -1036 (2004).
- 3- Metal Complexes of Some Thiocarbohydrazone Ligands: Synthesis and Structure. [A. A. Abu-Hussen](#) and A.A.A. Emara, **Journal of Coordination Chemistry**, **57(11)**, 973-987 (2004).
- 4- Spectral, Magnetic, Thermal and Electrochemical Studies on Phthaloyl Bis-(Thiosemicarbazide Complexes). [A.A. Abu-Hussen](#), N.M. El-Metwally, I.M. Saad and A.A. El-Asmy, **Journal of Coordination Chemistry**, **58(18)**, 1735-1749(2005).
- 5- Synthesis and Spectroscopic Studies on Ternary Bis-Schiff Base Complexes Having Oxygen and/or Nitrogen Donors. [A. A. Abu-Hussen](#), **Journal of Coordination Chemistry**, **59(2)**, 157-176 (2006).
- 6- Spectroscopic Studies of Bimetallic Complexes Derived From Tridentate or Tetradentate Schiff Bases of Some Di- and Tri-valent Transition Metals, A. A. A. Emara and [A. A. Abu-Hussen](#), **Spectrochimica Acta Part (A)**, **64**, 1010-1024,(2006).
- 7- Spectral, Magnetic, Thermal and Electrochemical Studies on Malonyl Bis-(Thiosemicarbazide Complexes). N.M. El-Metwally, [A.A. Abu-Hussen](#), I.M. Gaber and A.A. El-Asmy, **Transition Metal Chemistry**, **31**, 71-78 (2006).
- 8- Synthesis and Spectroscopic Characterization of Oxaly Bis-(Diacylmonoximhydrazone) N.M. El-Metwally, [A.A. Abu-Hussen](#) and A. A. El-Asmy, **International Journal of Pure and Applied Chemistry**, **1(1)**, 75-81 (2006)

- 9- Redox, Thermodynamic and Spectroscopic of Some Transition Metal complexes Containing Heterocyclic Schiff Base ligands, [A.A. Abu-Hussen](#) and Wolfgang linert., **Spectrochimica Acta Part (A)**, **74**, 214–223 (2009).
- 10- Synthesis, Spectroscopic, Thermal and Biological Activities on Solvatochromic Mixed Ligand Copper(II) Complexes, [A.A. Abu-Hussen](#) and Wolfgang linert., **Journal of Coordination Chemistry**, **1-12**, (2009) .
- 11- Synthesis, Spectroscopic and Biological activity of New Mononuclear Transition Metal complexes of Macrocyclic Schiff Bases Derived from 1,1'-Diacetylferrocen, [A.A. Abu-Hussen](#) and Wolfgang linert., **Synthesis and Reactivity in Inorganic, Metal organic and Nano-metal Chemistry**, **39**. 13-23, (2009).
- 12- Spectroscopic and biological Studies of Mono-or Binuclear Complexes Derived from Tridentate Thio-Schiff Bases of Some Transition Metals, [A.A. Abou-Hussein](#), **Journal of Sulfur Chemistry**, **31**, **5**, 427–446 (2010).
- 13- Spectroscopic, solvent influence and thermal studies of ternary copper(II) complexes of diester and dinitrogen base ligands, Adel A.A. Emara, [Azza A.A. Abu-Hussein](#), Ahmed A. Taha and Nelly H. Mahmoud , **Spectrochimica Acta Part A** **77** (594–604) (2010).
- 14- Syntheses, solvatochromism and antimicrobial activities of new binuclear copper(II) mixed-ligand complexes in the ternary system with (β -diketones) and diamine ligands, [A.A. Abu-Hussein](#), Nelly H. Mahmoud and Wolfgang linert, **Journal of Coordination Chemistry**, **64**(10), 2592-2605, (2011).
- 15- Synthesis, spectroscopic and biological activities studies of acyclic and macrocyclic mono and binuclear metal complexes containing a hardsoft Schiff base, [A.A. Abu-Hussein](#), and Wolfgang linert, **Spectrochim. Acta Part (A) Molecular and Biomolecular Spectroscopy**, **95** , 596, (2012).
- 16- Synthesis, spectroscopic, coordination and biological activities of some organometallic complexes derived from thio-Schiff base ligands, [A.A. Abu-Hussein](#), and Wolfgang linert, **Spectrochimica Acta Part A, Molecular and Biomolecular Spectroscopy**, **117**, 763–771, (2014).
- 17- Synthesis, Spectroscopic studies and Inhibitory Activity against Bacteria and Fungi of Acyclic and Macrocyclic Transition Metal Complexes Containing triamine coumarine Schiff Base Ligand [A.A. Abu-Hussein](#), and Wolfgang linert, **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy**; **141**, 223–232(2015).
- 18- Syntheses, characterization, and biological activity of novel monoand binuclear transition metal complexes with a hydrazone Schiff base derived from a coumarin derivative and oxalyldihydrazine, Esther Theresa Knittl, [Azza A. Abou-Hussein](#) and Wolfgang Linert, **Monatshefte für Chemie** **V.149**, 431–443(2018).

19- Cobalt and copper complexes with formamidine ligands: Synthesis, crystal X-ray study, DFT calculations and cytotoxicity, Ahmed A. Soliman, Mina A. Amin , Amany M. Sayed , [Azza A.A. Abou-Hussein](#), and Wolfgang Linert, **Polyhedron**, **161**, (213-221)2019.

20-Solvatochromism of Copper(II) Complexes Derived from Trifluoroacetylacetone and Dinitrogen Ligands; Wolfgang Linert, [Azza. A. Abou-Hussein](#) and Nelly H. Mahmoud, **Advances in Chemical Research**, **V(1)4**, (1-23) 2019.

21-New platinum(II) Ternary complexes of formamidine and pyrophosphate: Synthesis, characterization and DFT. Calculations and In vitro cytotoxicity, Ahmed A Soliman, Fawzy A Attaby , Othman I Alajrawy , [Azza A A Abou-Hussein](#) and Wolfgang Linert, **Combinatorial Chemistry High Throughput Screening**, **23(7)**611-623.(2020).

22-Synthesis, spectral investigation, biological activities and docking stimulation of novel metal complexes of Trifluoro phenylthiazol derivative with computational studies, Nelly H. Mahmoud, Adel A.A. Emara, Wolfgang Linert, Asmaa M Fahim, [Azza. A. Abou-Hussein](#), **Journal of Molecular structure**. **1272 (2023) 134095**.

23- Novel metal complexes of N^1, N^2 -bis(4-phenylthiazol-2-yl)phthalamide: Synthesis, spectroscopic, thermal and kinetic investigations, molecular modeling, computational calculations, anti-breast cancer studies. Mariam G. Rizka , Adel A.A. Emara , [A. A. Abou-Hussein](#) and Nelly H. Mahmoud, **Journal of Molecular structure**. **1277 (2023) 134816**.

24- Bioremediation of Synthetic Polyacrylic acid via radiation graft copolymerization with natural based polymers, Eman M. Abaid , Ghada A. Mahmoud, [Azza Aly Aly Abouhussen](#); Maysara E; **Egyptian Journal of Chemistry** , **V(67), No.5p.141 - 152 (2024)**.

25 Solvatochromism in Metal Complexes: Spectroscopic and Thermodynamic Studies on Mixed-Ligand Copper(II) Complexes, Adel A.A. Emara, Azza A.A. Abu-Hussein and Nelly H. Mahmoud. Publisher LAP LAMBERT Academic (January 22, 2014).

<https://www.amazon.com/Solvatochromism-Metal-Complexes-Spectroscopic-Thermodynamic/dp/3659517364>