

CURRICULUM VITAE

Personal Data:

Name : Sara Fathy Ahmed El-Beltagy
Nationality : Egyptian
Date of birth : November, 19, 1986.
Marital status : Single
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Academic Qualifications:

<i>Degree</i>	<i>Date</i>	<i>Specialization</i>	<i>Faculty</i>	<i>University</i>
Bachelor of Science	2007	Chemistry (Very Good)	Science	Mansoura
Master of Science	2011	Inorganic Chemistry	Science	Mansoura
PhD of science	2014	Inorganic Chemistry	Science	Mansoura

Title of the M. Sc. Thesis:

"Physicochemical Studies on Metal Complexes of Some Hydrazones"

Title of the PH.D Thesis:

"Physicochemical and Biological Studies on Some Complexes of Ligands Containing Sulphur and Nitrogen Atoms"

Languages:

English: Very Good Reading, Writing, Conversation.

TOEFL (local)

Computer Skills:

- International Computer Driving Licence (**ICDL**)
- Chemoffice 2012 program
- Origin 8 program
- HyperChem 8.0 program
- Photoshop program
- Materials Studio 5
- Privileged user of the internet.

Research experience:

- Preparation and structure elucidation of new ligands and their metal ion complexes.
- Using of different chemical techniques as FTIR, UV-VIS, CHN, TGA, DTA, Mass, NMR, AAS, conductance and magnetic properties measurements to determine the structure of the isolated solid complexes.
- Sharing in a research project aimed to preparing metal complexes with anti-microbial, anti-oxidant and anti-cancer activity.

Experience Certificate:

- Teaching Theoretical and Practical Exercises for Items Engineering Chemistry- Faculty of Engineering-Mansoura University from 2011 to 2017.
- Lecturer in Inorganic Chemistry at Chemistry Dept. - Faculty of Science - Jazan University.

List of publications:

- Synthesis, spectroscopic characterization and thermal behavior of metal complexes formed with N'-(1-(4-hydroxyphenyl) ethylidene)-2-oxo-2-(phenylamino) acetohydrazide (H₃OPAH), *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, Volume

83, Issue 1, December 2011, Pages 17-27, **Sara F. Ahmed**, Ola A. El-Gammal and Gaber Abu El-Reash.

- Structural, spectral, thermal and biological studies on 2-oxo-N'-((4-oxo-4H-chromen-3-yl)methylene)-2-(phenylamino)acetohydrazide (H₂L) and its metal complexes, Journal of Molecular Structure, Volume 1007, 11 January 2012, Pages 1-10, Ola A. El-Gammal, Gaber Abu El-Reash and **Sara F. Ahmed**.
- Structural, DFT and biological studies on Cu(II) complexes of semi and thiosemicarbazide ligands derived from diketo hydrazide, Polyhedron, Volume 81, 15 October 2014, Pages 749-763, T.A. Yousef, G.M. Abu El-Reash, O.A. El-Gammal and **Sara F. Ahmed**.
- Structural, DFT and biological studies on Co(II) complexes of semi and thiosemicarbazide ligands derived from diketo hydrazide, Journal of Molecular Structure, Volume 1076, 5 November 2014, Pages 227-237, T.A. Yousef, O.A. El-Gammal, **Sara F. Ahmed** and G.M. Abu El-Reash.
- Synthesis, biological and comparative DFT studies on Ni(II) complexes of NO and NOS donor ligands, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 135, 25 January 2015, Pages 690-703, T.A. Yousef, O.A. El-Gammal, **Sara F. Ahmed** and G.M. Abu El-Reash.
- Synthesis, spectral characterization, molecular modeling and in vitro antibacterial activity of complexes designed from O₂, NO and NO donor Schiff-base ligand, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 135, 25 January 2015, Pages 227-240, Ola A. El-Gammal, G. Abu El-Reash, **Sara F. Ahmed**.
- Structural, spectral, thermal and biological studies on (Z)-N-benzoyl-N'-(2-oxo-2-(phenylamino)acetyl)carbamohydrazonothioic acid (H₂PABT) and its Cd(II), Hg(II), Zn(II) and U(VI)O₂²⁺ complexes, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 146, 5 July 2015, Pages 228-239, T.A. Yousef, **Sara F. Ahmed**, O.A. El-Gammal, G.M. Abu El-Reash.
- Structural, DFT and biological studies on Cr(III) complexes of semi and thiosemicarbazide ligands derived from diketo hydrazide, Journal of Molecular Structure, Volume 1125, 5 December

2016, Pages 788-799, T.A. Yousef, O.K. Alduaij, **Sara F. Ahmed**, G.M. Abu El-Reash, O.A. El-Gammal.

- Semi- and thiosemicarbazide Mn(II) complexes: Characterization, DFT and biological studies, Journal of Molecular Structure, Volume 1119, 5 September 2016, Pages 351-364, T.A. Yousef, O.K. Alduaij, **Sara F. Ahmed**, G.M. Abu El-Reash, O.A. El-Gammal.