

CURRICULUM VITÆ

Reda Abdallah Ali Ammar

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Personal Information

Date of Birth: 26\01\1974

Gender: Female

Marital Status: Married

Nationality: Egyptian

Education

Oct/2001 – Nov/2006

Al-Azhar University, Faculty of Science (Cairo-Egypt)

Ph.D. in Inorganic and Analytical Chemistry

Thesis Title: " physicochemical studies for some binary and ternary complexes derived from some amino acids with nickel (II) , palladium (II) and platinum (IV) ions "

Supervisor: Prof. Eman M. Shoukry (Al-Azhar U).

Oct/1996 – Jan/2000

Al-Azhar University, Faculty of Science (Cairo-Egypt)

M.Sc. in Inorganic Chemistry

Thesis Title:" Chemical studies of the binary and ternary complexes for some metal ions with bioligands "

Supervisor: Prof. Eman M. Shoukry (Al-Azhar U).

Oct/1991 – May/1995

Al-Azhar University, Faculty of Science (Cairo-Egypt)

B.Sc. in Chemistry (Very Good Honors), Ranked third of 150 students.

Academic Positions

- **Professor of Inorganic and Analytical Chemistry** in Chemistry Department Faculty of Science, Al-Azhar University, Cairo, Egypt (Jan 2017-present)
- **Assistant Professor of Inorganic and Analytical Chemistry** in Department of Chemistry Faculty of Science, King Saud University 2009-2010.
- **Lecturer of Inorganic and Analytical Chemistry** in Chemistry Department Faculty of Science, Al-Azhar University 2006 - 2009.
- **Assistant lecturer of Inorganic Chemistry** in Chemistry Department Faculty of Science, Al-Azhar University 2000 - 2006.
- **Demonstrator** in Chemistry Department Faculty of Science, Al-Azhar University 1996 - 2000.

Teaching Experience

- Instrumental Methods of Analysis
- Environmental Analysis
- Quantitative Methods of Analysis
- Chemical Separation Methods
- Chemical Analysis for non major
- Advanced Analytical Chemistry
- General Chemistry 101

Areas of Research Interests

- Potentiometric studies of binary and ternary metal ion(II) complexes involving bioligands.
- The use of ion-selective electrodes in the determination of drug substances

References & Contact Persons

- Prof. Eman M. Shoukry (Professor, Al-Azhar University)
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- Prof. Nasser Alajhaz (Professor, Al-Azhar University)
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- Dr. Ayman Nafady (Professor, King Saud University)
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List of Publications:

- 1- E. M. Shoukry, Z. H. Abd El-Wahab and **R. A. Ammar**: **Ternary complexes of some transition metal ions involving amino acids and peptides**, Egypt. J. Chem., **46**(1), 215 (2003).
- 2- E. M. Shoukry, Z. H. Abd El-Wahab and **R. A. Ammar**: **Potentiometric studies of binary and ternary nickel(II) complexes involving ethylenediamine N, N` diacetic acid, amino acids and peptides**, Asian. J Chem., **15**(2), 5 (2003).
- 3- Eman M. Shoukry, **Reda A. Ammar** and Mohsen M. Mostafa: **Ternary complexes of nickel(II) with tricine, Girard`s T and some selected amino acids**, A-Azhar Bull.Sci. (AISC`08) , 49-60 (2008).
- 4- Eman M. Shoukry, **Reda A. Ammar** and Mohsen M. Mostafa: **Mixed-Ligand of Palladium(II) Involving Tricine, Girard`s T and Amino acids**, In Press, Accepted Manuscript, Egypt. J Chem. (2010).
- 5- A. M. A. Alaghaz and **R. A. A. Ammar**: **Preparation and characterization of some novel diphenylphosphine hydrazones and semicarbazones and their metal complex derivatives**, J. Phosphorus, Sulfur, and Silicon, and The Related Elements, **183**, 2827 (2008).
- 6- Abdel-Nasser M. A. Alaghaz, **Reda A. Ammar**: Hany M. Mohamed: **Studies on the chelation of cyclodiphosph(V)azane complexes of Co(II), Ni(II), Cu(II), and Pd(II): preparation, characterization, thermal, solid state electrical conductivity, and biological activity studies**, J. of Phosphorus, Sulfur, and Silicon, and The Related Elements, **184**, 2472 (2009).
- 7- A. M. A. Alaghaz , **R. A. A. Ammar**: **Spectral, potentiometric titration, electrical conductivity and biological activity properties of some new salicylidene-3-phenyl-2-aminothiazole and their metal complexes**, Technical and Vocational Training Conference (2009).
- 8- **R. A. A. Ammar**: **Potentiometric studies of ternary complexes involving ethylenediamine N, N` diacetic acid (EDDA) palladium(II) and some bioligands**, J. Fluid Phase Equilibria, **285**, 116 (2009).
- 9- Abdel-Nasser M.A. Alaghaz , **Reda A. Ammar**: **New dimeric cyclodiphosph (V) azane complexes of**

Cr(III), Co(II), Ni(II), Cu(II), and Zn(II): Preparation, characterization and biological activity studies, European Journal of Medicinal Chemistry, **45**(4),1314 (2010).

10- Abdel-Nasser M.A. Alaghaz , **Reda A. Ammar: Synthesis, potentiometric and antimicrobial studies on metal complexes of thiazole Schiff base**, A-Azhar Bull.Sci. (AISC`08), (1) ,232 (2010).

11- **Reda R. Ammar**, Etap M. Al-Mutiri, Mohamed M. Abdalla: **Equilibrium study of the mixed complexes of copper(II) with adenine and amino acids in aqueous solution**, J. Solution Chemistry, **39**(5), 727 (2010).

12- **Reda Ammar**, Nuwair khalaf , and Abdulrhman Al-Warthan: **Ion selective PVC membrane electrode for the determination of trazodone hydrochloride in pharmaceutical formulation**, J. Inclusion Phenomena and Macro cyclic Chemistry, **67**, 287 (2011).

13- Kholoud M.M. Abou El-Nour, Ala'a Eftaiha, Abdulrhman Al-Warthan, **Reda A.A. Ammar: Synthesis and applications of silver nanoparticles**, Arabian Journal of Chemistry, **3**, 135 (2010).

14- **R. A. A. Ammar: A New Ritodrine selective electrode and its pharmaceutical application**, E. J. Chemistry, **7**(5), 103 (2010).

15- Ahmad Aqel, Kholoud M.M. Abou El-Nou, **Reda A.A. Ammar** and Abdulrahman Al-Warthan: **Carbon nanotubes, science and technology part (I) structure, synthesis and characterization**, Arabian Journal of Chemistry, **5**, 1-23 (2012).

16- **Reda A. Ammar**, Etap M. Al-Mutiri, Mohamed M. Abdalla: **The determination of the stability constants mixed ligand complexes of adenine and amino acids with Ni(II) by potentiometric titration method**, Fluid Phase Equilibria, **285**, 116 (2010).

17- Mohamed E. Zayed, **Reda A. Ammar: Some Transition metal ions complexes of Tricine (Tn) and amino acids: synthesis, solution equilibria and antibacterial activity**, Journal of Saudi Chemical Society, **18**, 774-782 (2014).

18- **Reda A. Ammar**, Haleema Otaifa, Abdulrhman Al-Warthana: **Ion-Selective membrane electrode for**

the determination of a novel duloxetine, Anal. Methods, **4**, 1427 (2012).

19- **Reda A. Ammar**, Nawal A. Alarfaj , Maha F. El-Tohamy: **Potentiometric study of 1, 2-diphenylethylenediamine palladium (II) complex with some selected amino acids**, Int. J. Electrochem. Sci., **7**, (2012).

20- Nawal A. Alarfaj1, **Reda A. Ammar**, Maha F. El-Tohamy: **Disposable screen-printed sensors for determination of Duloxetine Hydrochloride**, Chemistry Central Journal, 2012, **6,6** (2012).

21- Tarek M. El-Gogary, Abdel-Nasser M. A.A. Alaghaza, and **Reda A. A. Ammar**: **Quantum chemical calculations and experimental investigations on 2-aminobenzoic acid- cyclodiphosph(V)azane derivative and its homo-binuclear Cu(II) complex**, Journal of Molecular Structure, Journal of Molecular Structure, **1011** (2012) .

22- **Reda A. Ammar**, Haleema Otaifa, Abdulrhman Al-Warthana: **Quantitative determination of duloxetine Hhydrochloride in pharmaceuticals and uUrine using prepared ion selective membrane Eelectrode**, Int. J. Electrochem. Sci., **7**, 2531 (2012).

23- Siham A. Lahsasni, **Reda A. Ammar**, Mona F. Amin, Eman M. Shoukry :**Mixed-ligand complex formation of Cu(II) with 1,2-diphenylethylenediamine as primary ligand and amino acids as secondary ligands**, Int. J. Electrochem. Sci., **7**, 2531 (2012).

24- **Reda A. Ammar**, Ayman Nafady, Mona F. Amin, Muneerah M. Al-Mogren and Eman M. Shoukry: **pH-Metric studies of acid-base equilibria on the mixed Cu(II) complexes with pyrazine-2,3-dicarboxylic acid and amino acids**, Int. J. Electrochem. Sci., **8**, 1501 (2013).

25- Abdel-Nasser M.A. Alaghaz, Badr A. El-Sayed, Ahmed A. El-Henawy and **Reda A. A. Ammar** : **Synthesis, spectroscopic characterization, potentiometric studies, cytotoxic studies and molecular docking studies of DNA binding of transition metal complexes with 1,1-diaminopropane-Schiff base**, Journal of Molecular Structure, **1035,83** (2013) .

26- Ayman NafadyFarhan: **Electrochemically-induced CO-substitution reactions of CoCp(CO)₂: manipulating the [CoCp(CO)₂]⁺/CoCp(CO)₂ radical/substrate coupling with PR₃nucleophiles (R =**

Ph or OMe)†, Int. J. Electrochem. Sci., **8**, 6094-6106 (2013).

27- Mohamed E Zayed, Suliman A Alharbi, Inas M Masoud and **Reda A Ammar**: **Assessment of bacteria as virulence agents for urinary tract infection in Egyptian patients**, African Journal of Microbiology Research, **7(14)**, 1278-1285 (2013).

28- Nawal A. Alarfaj, **Reda A. Ammar**, Maha F. El-Tohamy: **Cationic-enhanced spectrofluorimetric method for determination of selective serotonin reuptake inhibitor duloxetine hydrochloride in its dosage forms**, Asian Journal of Chemistry, **25(11)**, 6416- 6420 (2013).

29- **Reda A. A. Ammar** , Abdel-Nasser M.A. Alaghaz: **Synthesis, spectroscopic characterization and potentiometric studies of a tetradentate [N2O2] schiff base, N,N'-bis(2-hydroxybenzylidene)-1,1-diaminoethane and Its Co(II),Ni(II),Cu(II) and Zn(II) complexes.**, Int. J. Electrochem. Sci., **8**, 8686 – 8699 (2013).

30- **Reda A. Ammar**, Amina M. El-Brashy, Tafla N. Al-Sahly : **Spectrophotometric and spectrofluorometric determination of doxazosin mesylate in tablets via Eosin Y**”, Asian Journal of Chemistry, **26(1)**, 57-62 (2014).

31- Nada M. Arishy, **Reda A. Ammar**, Abdulrhman Al-Warthan: **The determination of the stability constants of mixed ligand complexes of picolinic acid and other bioactive ligands with Zn(II) by potentiometric titration method** ”., Asian Journal of Chemistry, **26 (8)**, 2395-2399 (2014).

32- Nada M. Arishy, **Reda A. Ammar**, Abdulrhman Al-Warthan: **The determination of the stability constants of mixed ligand complexes of sulfanilamide and other bioactive ligands with Cu(II) by potentiometric titration method**”, Asian Journal of Chemistry, **26**, (2014).

33- Abdel-Nasser M.A. Alaghaz, **Reda A.A. Ammar**, Gottfried Koehler, Karl Peter Wolschann, Tarek M. El-Gogary: **Synthesis, spectral and quantum chemical studies on NO-chelating sulfamonomethoxine-cyclophosph(V)azane and its Er(III) complex** ”., Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, **(14)**, 128, 724–729 (2014).

34- Abdel-Nasser M.A. Alaghaz, **Reda A.A. Ammar**, Ahmed A. Elhenawy: **DFT, characterization and investigation of vibrational spectroscopy of 4-((4- hydroxy-3-(2-(pyrazine-2-**

carbonyl)hydrazono)methyl)phenyl)diazen-yl)benzenesulfonamide and its copper(II) complex"., Journal of Molecular Structure, **1067** , 94–103 (2014).

35- Abdel-Nasser M.A. Alaghaz , Mohamed E. Zayed, Suliman A. Alharbi, Reda A.A. Ammar , Ahmed Elhenawy: Synthesis, characterization, biological activity, molecular modeling and docking studies of complexes 4-(4-hydroxy)-3-(2-pyrazine-2-carbonyl)hydrazonomethylphenyl-diazen-yl-benzenesulfonamide with anganese(II), cobalt(II), nickel(II), zinc(II) and cadmium(II)"., Journal of Molecular Structure, 1084, 352–367 (2015).

36- Abdel-Nasser M. A. Alaghaza, Mohamed E Zayed, Suliman A Alharbi, Reda A. A. Ammar: Synthesis, spectroscopic identification, thermal, potentiometric and antibacterial activity studies of 4-amino-5-mercapto-Striazole Schiff's base complexes"., Journal of Molecular Structure, 1087, 60-67(2015).

37- Reda A. Ammar, A New Atomoxetine Hydrochloride Selective Electrode and Its Pharmaceuticals Application, , Int. J. Pharm. Sci. Rev. Res., **36**(2), 242-246 (2016).

38- Reda A. Ammar, Determination of Doxazosin Mesylate by Ion-pair Complex Formation with Bismuth (III) Tetraiodide using Spectrophotometric and Atomic Absorption Spectroscopic , , Oriental J. Chemistry , **31** (4), 2487-2497(2015).

39- Sameerah I. Al-Saeedi, Abdel-Nasser M.A. Alaghaz , Reda A. Ammar , Synthesis, spectroscopic characterization and electrochemical studies of Girard's T chromone complexes"., Journal of Molecular Structure, 1111, 1-13 (2016).

40- Sameerah I. Al-Saeedi, Reda A. Ammar, Abdel-Nasser M.A. Alaghaz, Formation equilibria of ternary complexes of Co(II) with Girard T (GT) and some amino acids in aqueous solution "., Oriental journal of chemistry, 32(3), 1-8 (2016).

41- Amani S . Alturiqi, Samar O. Aljazzar, Reda A. Ammar, Nuwair khalaf , "Construction and Performance Characterization of Ion Selective Electrodes for Potentiometric Determination of Citapolararm Hydrobromide in Biological Fluids "., Oriental journal of chemistry, 33(1), 1-5(2017).

42- Samar O. Aljazzar, Reda A. Ammar, Amani S . Alturiqi " Potentiometric Studies of Ternary Complexes of Cu(II) with Antihypertension Drug Paroxetine HCl and Some Amino Acids ".,Int. J.

Pharm. Sci. Rev. Res., 45(1), 6-10 (2017).

43- **Reda A. Ammar**, Sameerah I. Al-Saeedi, Abdel-Nasser M.A. Alaghaz , " **Synthesis, Coordination behavior, pH-titration and Antimicrobial Activity Studies of Ternary Co(II) Complexes of Girard T and Glycine Oligopeptides**", Int. J. Electrochem. Sci., In Press, Accepted Manuscript (2017).

44- **Reda A. Ammar**, Shalaha D. Al-Qahtani, " **Potentiometric Studies of Ternary Complexes Involving Palladium(II) with Fluoxetine Drug and some Bio-ligands**, J. Solution Chemistry, 46 (4), 957-965 (2017).

Curriculum Vitae