

Curriculum Vitae

OLA RUSHDY SHEHAB

*Assistant Prof. of Analytical Chemistry
Cairo University
Faculty of science
Department of Chemistry*



Personal information

Name: Ola Rushdy Shehab

Date of birth: 12-08-1981

Nationality: Egyptian

Gender: Female

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Education

Ph.D. Analytical Chemistry, Faculty of Science, Cairo University, Giza, 2010.

M.Sc. Physical Chemistry, Faculty of Science, Cairo University, Giza, 2005.

B.Sc. Chemistry Major with grade very good, Faculty of Science, Cairo University, Giza, 2002.

Employment

- ☞ Demonstrator, Faculty of science, Cairo University, Egypt (2002-2005).*
- ☞ Assistant lecturer, Faculty of science, Cairo University, Egypt (2005-6/2010).*
- ☞ Lecturer, at Modern sciences and Arts University (MSA) in six of October for one semester.*
- ☞ Lecturer, Faculty of science, Cairo University, Egypt (7/2010- 2016).*
- ☞ Lecturer, at Canadian International College (CIC) (2010-2013).*
- ☞ Ass. Prof., Faculty of science, Cairo University, Egypt (3/2016-till now).*

Research Experience

- ✚ *Differential scanning calorimetry*
- ✚ *Conductometric and pH-metric measurements.*
- ✚ *Gravimetric Analysis.*
- ✚ *Ion selective electrodes*
- ✚ *Spectrophotometric determination*

Teaching Experience

- ✓ *Analytical Chemistry (Titrimetric Methods, Gravimetric Analysis, Acid and Basic Radicals).*
- ✓ *Instrumental Methods of Analysis.*
- ✓ *Advanced Analytical Chemistry*
- ✓ *General chemistry.*
- ✓ *Physical chemistry.*

Environmental Activities

Participation in Environmental Management of Hazardous chemicals and wastes in Cairo University Academic Laboratories Project under the patronship of Basel Convention Regional Centre for Training and Technology Transfer for Arab States in Cairo

Language Skills

English (very Good)

Computer Skills

- ✓ *Microsoft office package.*
- ✓ *Chemistry programs (Chemdraw, sigma plot,....)*

Personal Skills

- ✓ *Proactive, enthusiastic and can work under pressure.*
- ✓ *Excellent Administrative Planning & Organizing Skills*
- ✓ *The ability of working in groups.*
- ✓ *Working accurately and sincerely.*

- ✓ *The ability of being responsible.*
- ✓ *The ability of scientific creativity and keeping laboratory safe.*

Conferences and workshops

- *First Scientific international Conference, Benha University, 5-6 September 2015.*
- *Chemical Safety and Security workshop, 19-23 May in Cairo, 2013*
- *Chemistry Conference celebrating the international year of Chemistry IYC 2011 in Cairo 23-25 October, 2011.*
- *Biannual conference on chemistry, Faculty of Science, Cairo University, March 2010.*
- *The eighth international symposium on new trends in chemistry and second congress of FASC "chemistry and national development" Jan. 2009.*
- *The seventh international symposium on new trends in chemistry, "Analytical chemistry for a better life", Jan. 2006.*

Publications

2005

1. Sayed Z. Mohammady, Refaat I. Nessim, Ola R. Shehab and Magdi M. Naoum, Effect of steric factors on mesomorphic stability I. 4-(4-Substituted phenylazo)-1-naphthyl 4-alkoxybenzoates, *Liquid Crystals*, 32(4) (2005) 477–482

2006

2. Sayed Z. Mohammady, Refaat I. Nessim, Ola R. Shehab and Magdi M. Naoum, Effect of steric factors on mesomorphic stability II. Binary Mixtures of homologues of 4-(4'-Substituted phenylazo)-1-naphthyl-4"-alkoxybenzoates, *Mol. Cryst. Liq. Cryst.*, 451(2006) 58-64

2006

3. Refaat I Nessim, Sayed Z. Mohammady, Ola R. Shehab, Magdi M. Naoum Phase behaviour of the binary mixtures of substituted analogues of LC compounds of the type 4-(4'-Substituted phenylazo)-1-naphthyl-4"-alkoxybenzoates, *Thermochimica Acta*, 449, (2006), 61-66

2010

4. Hosny Ibrahim, Y. M. Issa, Ola R. Shehab, New Selenite-Selective Electrodes Based on 5, 10, 15, 20- Tetrakis-(4-Methoxyphenyl)-pophyrin-Co(II), *J. Hazardous Materials*, 181 (2010) 857-867

2012

5. Y. M. Issa, Hosny Ibrahim, Ola R. Shehab, New Copper (II)-selective chemically modified carbon paste electrode based on etioporphyrin I dihydrobromide, *J. of Electroanal. Chem.* 666 (2012) 11-18

6. Y. M. Issa, Hosny Ibrahim, Ola R. Shehab, Determination of Nitrite in Environmental Samples Using Chemically Modified Carbon Paste Electrode Based on New Co(III)-benzopyran-4-oneSchiff Base Complex, *sensing in Electroanalysis* 7 (2012) 235-256.

2013

7. Issa, Y.M.; Ibrahim, Hosny; Rhazi, M. El; Shehab, Ola R. Shehab, Determination of lead in some environmental samples using chemically modified carbon paste electrode based on lead tetrakis(imidazolyl)borate, *Nanosci. & Nanotech. Let.*, 5(3) (2013) 392-401(10)

2013

8. Ola R. Shehab, *Ahmed M. Mansour*, Charge transfer complexes of 2-arylaminoethyl-1H-benzimidazole with 2,3-dichloro-5,6-dicyano-1,4-benzoquinone: Experimental and DFT studies, *J. Molecular Structure* 1047 (2013) 121–135

2014

9. Ola R. Shehab, Ahmed M. Mansour, New thiocyanate potentiometric sensors based on sulfadimidine metal complexes: Experimental and theoretical studies, *Biosensors and Bioelectronics* 57 (2014) 77–84

10. Ahmed M. Mansour, Ola R. Shehab, Trapping of muscle relaxant methocarbamol degradation product by complexation with copper(II) ion: Spectroscopic and quantum chemical studies, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 128 (2014) 263–271

2015

11. Ahmed Fahmy A. Youssef, Yousry M. Issa, Ola R. Shehab and Heba Sherief, Determination of Microgram Amounts of Copper in Real Samples Using New Modified Carbon Paste Electrode, *Int. J. Electrochem. Sci.*, 10 (2015) 4752 – 4769

12. Ola R. Shehab, Ahmed M. Mansour, Sparfloxacin charge transfer complexes with 2,3-dichloro-5,6-dicyano-1,4-benzoquinone and tetracyanoquinodimethane: Molecular structures, spectral, and DFT studies, *J. Mol. Structure* 1093 (2015) 186-194

13. Ola R. Shehab, Ahmed M. Mansour, Potentiometric multi-walled carbon nanotube Zn sensor based on a naphthalocyanine neutral carrier: experimental and theoretical studies, *RSC advances* 5 (2015) 58416-58427

2016

14. F. M. Abdel-Haleem, Ola R. Shehab, Comparative study of carbon paste, screen printed, and PVC potentiometric sensors based on copper-sulphamethazine Schiff base complex for determination of iodide; Experimental and theoretical approaches, *Electroanalysis* 28 (2016) 800-807.

15. Ola R. Shehab, Ahmed M. Mansour, Potentiometric sensing of aspirin metabolite in human plasma and pharmaceutical preparations using Co(III)-complex based electrodes: Experimental and quantum chemical calculations, *Electroanalysis* 28 (2016) 1100-1111.

16. Y. M. Issa, Hussein M. AbdelFattah*, Ola R. Shehab, Nahla B. Abdel Moniem, Determination and Speciation of Tellurium Hazardous Species in Real and Environmental Samples, *Int. J. Electrochem. Sci.*, 11 (2016) 7475-7498.

17. Ahmed M. Mansour, Ola R. Shehab, Experimental and quantum chemical calculations of novel photoactivatable manganese(I) tricarbonyl complexes, *J. Organomet. Chem.* 822 (2016) 91-99

2017

18. Ahmed M. Mansour, Ola R. Shehab, Photoactivatable CO - Releasing Properties of {Ru (CO) 2} - Core Pyridylbenzimidazole Complexes and Reactivity towards Lysozyme, *European J. Inorg. Chem.* 2017 (37), 4299-4310

19. Ahmed M Mansour, Fatma A Soliman, Ola R Shehab, Nour T Abdel-Ghani, Photodegradation of sulfadiazine catalyzed by p-benzoquinones and picric acid: application to charge transfer complexes, *RSC Advances* 7 (63), (2017) 39989-39996

20. Ahmed M Mansour, Ola R Shehab, Structural studies and quantum chemical calculations of Cr (III), Fe (III) and Ru (III) bromazepam complexes, *Applied Organometallic Chemistry* 31 (7) (2017)

21. Yousry M. Issa, Hussein M. Abdel - Fattah, Ola R. Shehab, Nahla B. Mohamed, Tellurite Carbon Paste Sensors: Microscopic Analysis Provides New Insights on the Nature of the Interaction Between the Ionophore and Analytical Species, *Electroanalysis* 29 (2017) 2541-2550

2018

22. A. M. Mansour, Ola R. Shehab, Lysozyme and DNA binding affinity of Pd (ii) and Pt (ii) complexes bearing charged N, N-pyridylbenzimidazole bidentate ligands AM Mansour, OR Shehab, *Dalton Transactions* 47(10) (2108) 3459-3468

23. Ola R Shehab, Haitham AlRabiah, Hatem A Abdel-Aziz, Gamal AE Mostafa, Charge-transfer complexes of cefpodoxime proxetil with chloranilic acid and 2, 3-dichloro-5, 6-dicyano-1, 4-benzoquinone: Experimental and theoretical studies, *J. Molec. Liq.* 257, 42-51

24. *Ahmed M Mansour, Ola R Shehab* Reactivity of visible-light induced CO releasing thiourea-based Mn(I) tricarbonyl bromide (CORM-NS1) towards lysozyme, *Inorg. Chim. Acta.* accepted