



CURRICULUM VITAE  
of  
Ekram Hamdy El-Sayed El-Ads

**OBJECTIVE**

- I am willing to give total support to faculty of science, Cairo University, with the experience and capability that I have, in order to achieve the university's goals and create mutual benefits.
- I am presently looking for a suitable researcher positions with a growing and fast moving organization where I can fulfill my potential.

**EDUCATION**

- Pre-PhD of physical chemistry, Cairo University, October 2012.
- PhD thesis of physical chemistry registration, Cairo University, July 2012.
- The Best M. Sc. Thesis Award, Cairo University, 2012/2013.
- Master of physical chemistry, Cairo University, May 2012.
- Pre-master of physical chemistry, Cairo University, May 2009.
- Bachelor of Science, Cairo University, May 2008, Major: Special Chemistry, Grade: Excellent with honor (92%).

**SKILLS**

- Computer Skills:

- Very good knowledge of Microsoft Office.
- ICDL certificate.
- Very good user of many scientific programs such as Sigma plot, Origin and Curve Un-scan.
- Advanced user of internet.

- Language Skills:

- Native language Arabic.

- Fluent command of both written and spoken English, TOEFL score: 573 (2010).
- Fair command in Germany.
- Research skills
- Data analysis
- Writing skill

**WORK  
EXPERIENCE**

- Assistant lecturer in Cairo University, faculty of Science, chemistry department from May 2012 till now.
- Teaching assistant in Cairo University, faculty of science, chemistry department from April 2009- April 2012.

**INTERSETS**

- Scientific interest in the areas of nanotechnology, conducting polymers, self-assembly monolayers, nanoparticles, surfactant, inorganic mixed metal oxides, perovskites, graphene, modified electrodes, catalysis, sensors and biosensors.

**INSTRUMENTAL  
TRAINING  
EXPERIENCES**

- Working with Electrochemical Analyzer, BAS, Volta lab and Epsilon instruments.
- Working with Electrochemical Impedance Spectroscopy (EIS), Gamry Instruments.
- Training on HPLC, GC, Atomic Absorption, Mass spectra, IR, UV and Elemental analysis in the micro-analytical center, faculty of science, Cairo University.
- Familiar with SEM-EDAX, TEM, AFM, XRD, XPS, BET, TGA and particle size analyzer.

**CONFERENCE**

- PATICIPATION**
- Fifth International Conference of Cairo University, Dec, 23, 2009.
- WORKSHOP PATICIPATION**
- Applications of Nanotechnology in Industry, Opportunity of Integration among IDB Member States, National Research Center, 29 January 2012.
  - How to use a database Chemspider "most important sources of global chemical information", New Central Library-Cairo University, 4 May 2015.

**RELEVANT PAPERS**

**Conference Papers:**

- Nada F. Atta, **Ekram H. El-Ads**, Ahmed Galal, "Cysteine self assembled monolayers at gold nanoparticles, characterization and sensor applications for some biologically important compounds." Presented in the Pittcon Conference, Orlando, FL, USA (March 2012).
- Ahmed Galal, Nada F. Atta, **Ekram H. El-Ads**, "Electrochemistry of some neurotransmitters at organized self-assembled molecules of amino acids and surfactants over gold-nanoparticles and conducting polymer surfaces." Presented in the 4th EuCheMS Chemistry Congress Conference, Prague, Czech Republic, (August 2012).
- Nada F. Atta, Shimaa M. Ali, **Ekram H. El-Ads**, A. Galal, A novel hybrid nano-scale sensor of perovskites and carbon paste for the determination of neurotransmitters. Presented in the 13<sup>th</sup> Topical Meeting of the International Society of Electrochemistry Advances in Electrochemical Materials Science and Manufacturing 7-10 April, 2013 - Pretoria, South Africa.

**Publications:**

- Probing cysteine self-assembled monolayers over gold nanoparticles – Towards selective electrochemical sensors,

Ahmed Galal, Nada F. Atta, **Ekram H. El-Ads**, *Talanta* 93 (2012) 264– 273.

- Gold nanoparticles-coated poly(3,4-ethylene-dioxythiophene) for the selective determination of sub-nano concentrations of dopamine in presence of sodium dodecyl sulfate, Nada F. Atta, Ahmed Galal, **Ekram H. El-Ads**, *Electrochimica Acta* 69 (2012) 102– 111.
- A novel sensor of cysteine self-assembled monolayers over gold nanoparticles for the selective determination of epinephrine in presence of sodium dodecyl Sulfate, Nada F. Atta, Ahmed Galal, **Ekram H. El-Ads**, *Analyst* 137 (2012) 2658–2668.
- Nanocomposite Graphene-Based Material for Fuel Cell Applications, Ahmed A. Elzatahry, Aboubakr M. Abdullah, Taher A. Salah El-Din, Abdullah M. Al-Enizi1, Ahmed A. Maarouf, Ahmed Galal, Hagar K. Hassan, **Ekram H. El-Ads**, Salem S. Al-Theyab and Attiah A Al-Ghamdi, *International Journal of the electrochemical Science* 7 (2012) 1-12.
- Smart Electrochemical Morphine Sensor Using poly(3,4-ethylene-dioxythiophene)/Gold-nanoparticles Composite in Presence of Surfactant, Nada F. Atta, Ahmed Galal, **Ekram H. El-Ads**, *International Journal of Electrochemical Science*, 9 (2014) 2113 - 2131.
- The Electrochemistry and Determination of Some Neurotransmitters at SrPdO<sub>3</sub> Modified Graphite Electrode, Nada F. Atta, Shimaa M. Ali, **Ekram H. El-Ads**, and A. Galal, *Journal of The Electrochemical Society*, 160 (7) (2013) G3144-G3151.
- Nano-perovskite carbon paste composite electrode for the simultaneous determination of dopamine, ascorbic acid and uric acid, Nada F. Atta, Shimaa M. Ali, **Ekram H. El-Ads**, A.

Galal, *Electrochimica Acta* 128 (2014) 16–24.

- Electrochemistry of glucose at gold nanoparticles modified graphite/SrPdO<sub>3</sub> electrode – Towards a novel non-enzymatic glucose sensor, **Ekram H. El-Ads**, Ahmed Galal, Nada F. Atta, *Journal of Electroanalytical Chemistry* 749 (2015) 42–52.
- Nanosensors based on surfactant modified electrodes, Nada F. Atta and **Ekram H. El-Ads** - *Nanosensors: Materials and Technologies*, 2013, Chapter 4, (IFSA) Publishing.
- Self-Assembled Monolayers on Nano-structured Composites for Electrochemical Sensing Applications, Nada F. Atta, **Ekram H. El-Ads**, Ahmed Galal, *Handbook of Nanoelectrochemistry*, 2015, Chapter 15, Springer Publishing.
- Graphene — A Platform for Sensor and Biosensor Applications, Nada F. Atta, **Ekram H. El-Ads**, Ahmed Galal, *Handbook of Biosensors Micro and Nanoscale Applications*, 2015, Chapter 2, InTech Publishing.
- Perovskite Nanomaterials – Synthesis, Characterization, and Applications, Nada F. Atta, Ahmed Galal and **Ekram H. El-Ads**, *Hand book of Perovskite materials: Synthesis, Characterization, Properties and Applications*, 2016, Chapter 4, InTech publishing.
- The effect of A-site doping in a strontium palladium perovskite and its applications for non-enzymatic glucose sensing, **Ekram H. El-Ads**, Ahmed Galal and Nada F. Atta, *RSC advances* 6 (2016) 16183-16196.
- Evidence of Core-Shell Formation between NdFeO<sub>3</sub> Nano-Perovskite and Ionic Liquid Crystal and Its Application in Electrochemical Sensing of Metoclopramide, Nada F. Atta, **Ekram H. El-Ads**, and Ahmed Galal, *Journal of The Electrochemical Society* 163 (7) (2016) B325-B334.

**TEACHING  
EXPERIENCE**

- 1- Teaching the practical qualitative analytical chemistry for the first level undergraduates, Chem. 101, Department of Chemistry, Cairo University.
- 2- Teaching the practical physical chemistry for the first level undergraduates, Chem. 102, Department of Chemistry, Cairo University.
- 3- Teaching the practical physical chemistry for the second level undergraduates, Chem. 211, Department of Chemistry, Cairo University.
- 4- Teaching the practical physical chemistry for the second level undergraduates, Chem. 212, Department of Chemistry, Cairo University.
- 5- Teaching the practical electroanalytical chemistry for the third level undergraduates, Chem. 322, Department of Chemistry, Cairo University
- 6- Teaching of Chemical kinetics and Surface Chemistry for the Bachelor students, Chem. 481.
- 7- Teaching of Chemical kinetics for the second level biotechnology students, Biotech 214.
- 8- Teaching of electrochemical, refractometric, polarimetric, and spectroscopic methods for the Bachelor students, Chem. 483.
- 9- Teaching the practical physical chemistry for the first level biotechnology students, BTC 122.

**PERSONAL**

- Place and Date of Birth : Cairo, 25/4/1986

## **INFORMATION**

- Sex: Female
- Marital Status : Engaged
- Religion: Islam
- Nationality: Egyptian
- Current address : Abod El-Zomor street, Nahia, Giza, Egypt
- Mobile : 01140117029, 01022442301
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*References available upon request.....*