

Curriculum Vitae

Dr. Hany Abdel-Hady Nasef

(Ph.D. in Nanotechnology and Analytical Chemistry)

Faculty of engineering - Chemical engineering department - URV- Spain

(Three Masters in chemistry and engineering chemistry)



1- Personal Data:

Name: Hany Abdel-Hady Abdel-Rahman Nasef

*Current position: Assistant Professor -
Delta Higher institute for engineering and technology -
Mansoura - Egypt .*

Birth: 13 Sept., 1973, Cairo, Egypt.

Nationality: Egyptian.

Marital status: Married, three children.

E-mail: hinassif@yahoo.co.uk

2- Qualifications:

- 2.1- *Ph.D., nanotechnology and bioanalysis group (NBG) -Faculty of Engineering - Chemical Engineering Department, Universitat Rovira i Virgili, Tarragona, Spain (2010) with grade **Excellent with honor**.*

The Ph.D. Thesis titled with "Temperature modulated genosensor for detection of Cystic fibrosis mutations". (4 years full time research in Spain).

The Ph.D. was co validated in to Analytical Chemistry by the Supreme Council of Universities in Egypt, Sept.,2010.

- 2.2- *Diploma in Advanced studies in Chemical Engineering (DEA), Feb.,2008, with grade (**Excellent**)- Chemical Engineering Department, Universitat Rovira i Virgili, Tarragona, Spain.*

- 2.3- *Diploma in Analytical Biochemistry with grade (**Very Good**) - Faculty of Science, Alexandria University, Alexandria, Egypt (2000).*

2.4- *M.Sc. (Analytical Chemistry) - Faculty of Science, Mansoura University (2001). The M.Sc. Thesis titled with "Retention profile and determination of some water soluble organic and inorganic pollutants employing polyurethane foam and other extracting agents". UK- Referee.*

- 2.5- *B.Sc., Chemistry- Faculty of Science, Mansoura University (1995)*

- 2.6- *Registered in the Medical Chemists Record (no.1786, date 15/12/2002) Health and Population Ministry -Egypt. (medical laboratory specialist)*

- 2.7- *TOEFL with 553 total score (Valid for USA) (2005). As a requirement for the PhD registration.*

3- Experiences:

- 3.1. **Teaching the Lab. Courses** (physical and analytical chemistry) for both Faculty of Science and Faculty of Education students. [six years 1996-2001].
- 3.2. **Production Engineer** (2002-2006) in both Liquid and Powder detergents production sections, Henkel Port Said co., branch of Henkel group, Germany.
- 3.3. **Good experience with DNA electrochemical-biosensors.** (4 years, Chemical Engineering Department, Universitat Rovira i Virgili, Tarragona, Spain.), during this period I had an experience with the following techniques: Cyclovoltammetry (CV), Differential Pulse Voltammetry (DPV), Electrochemical Impedance spectroscopy (EIS), High Performance Liquid Chromatography (HPLC), Spectrophotometers (including UV-VIS and Fluoremeters) and BIACORE.
- 3.4. **Research and development manager** – National co. for sulfur products – Riyadh – Saudi Arabia (June – October 2012). I was responsible for the development and preparation of new materials as well as chemical analysis and technical support.
- 3.5. **Senior Chemist:** responsible for Heavy metals analysis via Atomic absorption technique in food, water and food staff - Central laboratories – Dumyat Branch – Ministry of Health – Egypt (2013 –2016).
- 3.6. **Faculty lecturer - engineering chemistry course - Delta Higher institute for engineering and technology - Mansoura - Egypt . (2016 upto now)**

4. Training Courses:

- 4.1- *Research Visitor to Plymouth University - United Kingdom - through the Link project between the universities of Cairo, Mansoura, El-Monoufia and Plymouth, Abril.2001. The project dealt with the improvement in the capabilities of the Egyptian universities to undertake water quality measurements, teach on issues related to water quality and management of water resources.*
- 4.2- *Summer (3 month, 1994) Training Courses in Damietta water Purification Station, (undergraduate training). The training aimed to deal with the Lab. experiments for analysis and monitoring of the process for the production of drinking water supplied from Nile River.*
- 4.3- *Medical representation training course in Hoechst-Roussel company (1996), which included both medical and selling skills courses. This course aimed to develop both medical background and marketing skills for medicine marketing.*
- 4.4- *Environmental Management system Awareness Course (ISO 14001) - (by SGS-SSC Egypt) - at Henkel PDC Egypt Co. - Port Said. As a part of the development of the management capabilities for Henkel engineers.*
- 4.5- *" 7 habits of highly effective people " - Franklin Covey (April - 2005). As a part of the development of the management capabilities for engineers in Henkel PDC Egypt Co.(Port Said) a branch from Henkel group, Germany .*
- 4.6- *Have good training with the management and manufacturing of both Liquid and Dry Detergents in Henkel PDC Egypt Co. - Port Said . branch of Henkel group, Germany.*
- 4.7- *Financial and legal aspects of university issues. University development center - Mansoura university.*
- 4.8- *Teaching and learning strategies. Delta Higher institute for engineering and technology - Mansoura - Egypt.*
- 4.9- *Strategic planning for colleges and institutes of higher education. The National Authority for Quality Assurance and Accreditation of Education "NAQAAE", July 2023.*

5. Publications:

5-A. International journals:

1. M.S.El-Shahawi and H.A.Nassif, "**Retention and thermodynamic characteristics of mercury(II) complexes onto polyurethane foams**", *Analytica Chimica Acta* (vol.481 ,2003 - Pages 29-39). (Impact factor: 4.95)
2. M.S.El-Shahawi and H.A.Nassif, "**Kinetics and retention characteristics of some nitrophenols onto polyurethane foams**", *Analytica Chimica Acta* (vol.487 ,2003 - Pages 249-259). (Impact factor: 4.95)
3. H. Nasef , V. Beni, C.K. O'Sullivan, "**Methylene blue as an electrochemical indicator for DF508 cystic fibrosis mutation detection**", *Analytical and Bioanalytical Chemistry*, vol.396, pp.1423–1432, DOI 10.1007/s00216-009-3369-5 (2010). (Impact factor: 3.43)
4. Hany Nasef, Valerio Beni, Veli C. Ozalp, Ciara K. O'Sullivan, "**Cystic Fibrosis: a label-free detection approach based on thermally modulated Electrochemical Impedance Spectroscopy**", *Analytical and Bioanalytical Chemistry*, vol. 396, pp.2565–2574, DOI 10.1007/s00216-010-3489-y (2010). (Impact factor: 3.43)
5. Hany Nasef, Valerio Beni, Ciara K. O'Sullivan, "**Electrochemical melting curve analysis**", *Electrochemistry Communications*, Volume 12, Issue 8, Pages 1030-1033 DOI: 10.1016/j.elecom.2010.05.016 (2010). (Impact factor: 4.6)
6. H. Nasef, V.C. Ozalp, V. Beni, C.K. O'Sullivan, "**Melting Temperature of Surface-tethered DNA**", *Analytical Biochemistry*, Volume 406, Issue 1, Pages 34-40, DOI: 10.1016/j.ab.2010.06.049 (2010). (Impact factor: 2.33)
7. Hany Nasef, Valerio Beni, Ciara K. O'Sullivan, "**Labelless electrochemical melting curve analysis for rapid mutation detection**", *Analytical Methods*, Volume 2, Pages 1461-1466, DOI: 10.1039/c0ay00344a (2010). (Impact factor: 1.9)
8. Hany Nasef, Valerio Beni, Ciara K. O'Sullivan, "**Electrochemical molecular beacon DNA biosensor for the detection and discrimination of the DF508 Cystic Fibrosis mutation**", *Journal of Electroanalytical Chemistry*, Volume 662, Pages 322-327, 2011. (Impact factor: 3.012)
9. Hassan Alwael, Doaa S. Al-Raimi, Khairia M. Al-Ahmary, Hany A. Nasef, Amal S. Alharthi, Tharawat N. Abduljabbar, Liyakat H. Mujawar, Ekram Y. Danish, Mohammad T. Soomro and Mohammad S. El-Shahawi, "**An Eco-Friendly, Interference, and Solvent Free Surfactant-Assisted Dual-Wavelength β -Correction Spectrometric**

Method for Total Determination and Speciation of Cu²⁺ Ions in Water",

International Journal of Analytical Chemistry, Volume 2023, 12 pages, 2023.

(Impact factor: 1.8)

10. Abdel Ghany F. Shoair , Abdulraheem S. A. Almalki, Mai M. A. H. Shanab, Ahmed M. Sheta, Amir El-Basiony, Nasser A. El-Ghamaz, Hany A. Nasef, and Hussein A. Khalaf, "**Unlocking the Potential of NiSO₄·6H₂O/NaOCl/NaOH Catalytic System: Insights into Nickel Peroxide as an Intermediate for Benzonitrile Synthesis in Water**", Journal of Nanotechnology , Volume 2023, 12 pages, 2023. (Impact factor: 4.2)
11. Abdel Ghany F. Shoair, Mariem M. Motawea, Abdulraheem S.A. Almalki, Mai M.A.H. Shanab, Amir El-Basiony, Hany A. Nasef," **Expired terazosin as environmentally safe corrosion inhibitor for 1018 carbon steel in 1 M HCl solution: Experimental and computational studies**", International Journal of Electrochemical Science, Volume 19, page 100397, 2024. (Impact factor: 1.5)
12. AbdulAziz A. Alayyafi , Hany A. Nasef, Shereen E. Salem, Esam A. Gomaac, Elsayed M. AbouElleef, "**Effect of indomethacin on the electrical conductance and electrochemical voltammetry of copper chloride in methanol,ethanol, and their binary mixture with water**", Heliyon, Volume 10, e24071, 2024. (Impact factor: 4.0)
13. Radwa T. Rashad , Hany A. Nasef , Esam A. Gomaa, Elsayed M. AbouElleef, "**Conductometric investigation of nano MnSO₄ association parameters and complex formation with glycyglycine in aqueous and methanol-water mixtures: Thermodynamic parameters and potential applications**", International Journal of Biological Macromolecules, Volu,e 267, page 131648, 2024. (Impact factor: 7.7)

5-B. International Conferences:

1. *M.S.El-Shahawi and H.A.Nassif “Retention profile and thermodynamic characteristics of mercury(II) halide complexes on polyurethane foams immobilized with onium cations” – The 6th International Conference on Chemistry and its role in development (ICCRD 6th 2001 – Mansoura, Egypt).*
2. *M.S.El-Shahawi and H.A.Nassif “Polyurethane Foams as Potential solid phase extractors for phenols in water” – The 6th International Conference on Chemistry and its role in development (ICCRD 6th 2001 – Mansoura, Egypt).*
3. *H. Nasef, V. Beni, C.K. O’Sullivan “Biosensor for cystic fibrosis mutant determination” – 5th PhD Poster Exhibition day, Tarragona, Spain, 20th Oct., 2006.*
4. *H. Nasef, V. Beni, C.K. O’Sullivan “Electrochemical Impedance: possible tool for cystic fibrosis pre-natal screening” – 1st International Symposium on Electrochemistry, July 2008, University of the Western Cape, Bellville, South Africa.*
5. *H. Nasef, V. Beni, C.K. O’Sullivan “Cystic Fibrosis: development of an Electrochemical Impedance Spectroscopy based screening tool” – The 59th Annual Meeting of the International Society of Electrochemistry, September 2008, Seville, Spain.*
6. *H. Nasef, V. Beni, C.K. O’Sullivan “Methylene blue as an Indicator for Electrochemical Quantification of DF508 Cystic Fibrosis mutation on gold electrodes” -7th PhD Poster Exhibition day, Tarragona, Spain, 21th Abril. 2009.*
7. *H. Nasef, V. Beni, C.K. O’Sullivan “DF508 Cystic fibrosis Determination via Methylene blue Electrochemistry” -XIV Trobada Transferontera on SENSORS and BIOSENSORS, Banyuls Sur Mer-France, 24-25 September /September 2009.*