

C.V.



Hatem Magdy Abdel-Moneim Amin

36 Bait Al-eila project, 1st stage, 6th of October, Egypt
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Career Objective:

Seeking a responsible position where my experience, accomplishments and proficiency will allow me & the society the opportunity for growth.

Highlights of qualifications and skills:

Personal Data:

- Date of birth : 3/5/1985
- Nationality : Egyptian.
- Marital status : single.

Education:

- **Bachelor of Science, Major Chemistry**, Chemistry Department, Faculty of Science, Cairo University, May 2006 (**Grade: Excellent with grade of honor**).
- Rank on Chemistry Department: The top student (**The first**) at the Bachelor of Science, 2006.
- Passed the Qualifying Examination for the Master Degree of Science-physical chemistry (a full year, two semesters, 21 courses), Chemistry Department, Faculty of Science, Cairo University, October 2007 (**Grade: Excellent**).
- **M.Sc. Degree**

Thesis Title:

“Advanced Composite Nano Hybrid Polymeric Materials For Energy Conversion Applications”.

Thesis supervisors are: Prof. Ahmed Galal (Dean of Science Faculty ,Cairo University), Prof. Wahid Khalil (former AvH fellows), and Dr.Nada atta, Chemistry Department, Faculty of Science, Cairo University

- **6 months international fellowship** at ENEA, Italy,2010

Personal skills:

- Excellent communication skills.
- Ability to work well under pressure.
- Good presentation skills.
- Initiative and highly motivated to conduct explorative research.
- Hard worker and can work in an interdisciplinary environment.

Working Experience:

- Working as a **research & lecturer assistant** at Chemistry Department, Faculty of Science, Cairo University, (from 9 May.2007 until present).
- **Teaching Chemistry** for **7 Semesters** (freshman through bachelor students).
- **Specialty:** Physical Chemistry - Materials Science and nanotechnology

Teaching Experience:

Teach the following laboratory courses:

- General chemistry for Science and premedical students.
- Physical Chemistry for Science students.
- Electrochemistry and thermodynamics for second year science students.
- Chemical Kinetics for science students.

Research Interests:

- Fabrication and characterization of nano-materials and their applications in energy conversion, photo and electro devices, sensors and catalysis.
- Synthesis and characterization of nano-conducting polymers.
- Fabrication and characterization of solar cells aiming to improve their conversion efficiency.
- Solar Hydrogen production through steam reforming, cracking, thermochemical process, ...etc.

Language skills:

- Very good command of written and spoken English language.
- Mother tongue: Arabic.

Computer skills:

- Very good in using Windows XP, and Microsoft office XP
- Internet User.
- Good user of Sigmaplot 10.0 by Systat Software.

Training courses:

- *Workshops on Analytical Techniques* at Micro Analytical Center (MAC), Cairo Univ. :
 - HPLC
 - IR
 - GC
 - Atomic Absorption Spectrometer
 - Elemental Analysis
 - Thermal analysis
 - Mass Spectrometers
 - NMR
 - Water Analysis
- Workshop on **synchrotron applications** at Ibn-Sina hall, Cairo Univ, 2009.
- Workshop on **Nanotechnology and its applications** at Ibn-Sina hall, Cairo Univ, 2009.

- Workshop on **Micro reactors and it's application** at Faculty of Science – Cairo Univ.,2009
- Workshops on **Time Management, job Ethics, Quality accreditation and management, Effective communication & Communication skills** in Faculty & Leadership Development Center (FLDC), Cairo Univ.
- *Workshop on chemicals and chemical waste management.*
- *Instrumentation training on:*
 - SPM (Scanning probe microscope).chimadzu
 - SEM (scanning electron microscope), JEOL instruments
 - Electrochemical Analyzer, BAS instruments, includes all voltammetric techniques.
 - BASi EPSILON instrument for electrochemistry.
 - Electrochemical Impedance Spectroscopy (EIS), Gamry Instruments, includes EIS, and corrosion studying techniques.

Training :

- Training in **Micro Analytical Center(MAC)**, Cairo Univ.(from Aug 2006 to May 2007)
- Training as a Quality Control analyst in **Chemical Industries Development Company (CID Company)**.
- Working on **molten salt solar thermal energy and solar hydrogen production by steam reforming of methane**, ENEA, Rome, Italy, 2010
- Training on **chemicals and chemical waste management**, Egypt-National cleaner production center, 2010

Conference attendance:

- 4th conference on Chemistry, **Chem.04**, organized by the Chemistry Department, Faculty of Science, Cairo University, April 2006.
- 7th International Symposium on New Trends in Chemistry, Cairo, Egypt, January, 2008.
- 4th conference on Chemistry, **Chem.05**, organized by the Chemistry Department, Faculty of Science, Cairo University, March,2008.
- 4th International conference on **scientific researches and its applications**, Cairo University, December, 2008.
- 8th International Symposium on New Trends in Chemistry, Cairo, Egypt, January, 2009.
- 2nd Congress of African Societies of Chemistry, Cairo, Egypt, January, 2009.
- 1st International Green Renewable Energy Conference(IGREC), Dec,2009, Cairo, Egypt
- 5th International conference on **scientific researches and its applications**, Cairo University, December, 2009.

Memberships in Professional Societies:

- Egyptian Syndicate of Scientific Professions.

- Egyptian Society of Analytical Chemistry (ESAC).
- Egyptian-Arab Futures Research Association (EAFRA).
- Inventors Technology Association.

Awards:

- **6** different awards from distinguished professors for being the first on the chemistry department for the B.Sc. degree.
- Award from Egyptian Syndicate of Scientific Professions
- The award of distinguished work from the Chemistry Department, Faculty of Science, Cairo University.
- Award for good effort as a member of the Organization Committee of chemistry conferences.
- Graduate Research Challenge Fund (GRCF) award, Faculty of science, Cairo University.

Fellowship:

- **ENEA** (Italian national agency for new technologies, energy and sustainable economic development) fellowship concerning concentrated solar thermal energy power plant using molten salt as a carrier and also trained on steam methane reforming for hydrogen production for 6 months at Rome-Italy, 2010, under supervision of Dr.F. Fabrizi, Dr. P. Tarquini, Dr.A. Giaconia.

Publications:

- **"Solar steam methane reforming for hydrogen production using molten salt as a heat carrier"** ENEA, Rome, Italy, workshop 2010.
- **"Titania nanotube arrays as photoanodes for dye sensitized solar cells using metal phthalocyanine dyes"** Electrochimica acta, under publication.
- **"Preparation and photoelectrochemical properties of a hybrid electrode composed of Polyaniline encapsulated in highly ordered TiO₂ nanotubes array"**, Chemical research bulletin, under publication.

Hobbies:

- Reading, sport, music, Web navigation.

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