FATMA ABD EL-MOUEZ

Researcher – Lecture

PROFILE

I am seeking for a new opportunity to capitalize my experience whilst allowing me to progress in my career and advance in nanotechnology research. My current research are in deposition of cuprous oxide as an electrode in methanol fuel cell. My point of view in research to use cheap available material and develop from it a high advance technique. Also I believe that I will be a good addition to your research team. I believe my combination of researcher experience, technician experience and enthusiasm for the profession would make me a great addition to your team. I now desire a fresh challenge with the possibility of progression to enable me to consolidate my experience with nanotechnology research and build upon the highly relevant researching skills I have already attainted.

EDUCATION

Ain Shams University.
2018
PhD in physical chemistry – Faculty of Science
PhD thesis entitled: Deposition of carbon nanotubes using spray pyrolysis and plasma enhanced chemical vapor deposition. Techniques.

Helwan University.
2013
M.SC in applied chemistry – Faculty of Science.
M.SC thesis entitled: Fabrication of copper/diamond composite as a heat sink application

Cairo University.
2004
B.SC in chemistry /physics – Faculty of Science

WORK EXPERIENCE

Current Position CMRDI Researcher/Lecture
Previous position CMRDI Assistant Researcher 2013
Chemist 204-2012

RESPONSIBILITIES

- Investigation and characterization of materials using chemical and physical analysis.
- Production of powders using several chemical and engineering techniques.
- production of composite material
- Investigation of physical properties of material at room temperature and at temperatures less than room temperature using vibrating sample magnetometer.
- supervisor assistant on engineer's graduation project in cooperation between CMRDI and faculty of engineering in Helwan University
- 5 years' experience in advanced coating and corrosion control.

- ROLES IN SOME PROJECTS

Project name : Fabrication of copper mono-oxide/CNTs electrode for fuel cell application
Role : IP researcher

Project name: Manufacturing of Nano Composite copper/tungsten in cooperation with Santiago University -USA- Egyptian-American Partnership Project
Role: Technician – Lab Analysis.

CONTACT

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Project name: Manufacture of Heavy Alloy substitute for imported in Cooperation with Academy of Scientific Research and Technology
Role: technician – Lab Analysis.

Project name: Preparation of new generations of cutting tool in cooperation with Universidad Carlos III de Madrid
Role: technician – Lab Analysis.

- CONFERENCE

7th international conference – mitigation and surface protection technologies -**Egycorr – Cairo – Egypt.**

8th International on Chemical and Environmental Engineering Conference– Military of Egypt **– Cairo - Egypt**

Synchrotron-Light for Experimental Science and Applications in the Middle East Workshop **(SESAME)- Amman-Jordan**

- SCIENTIFIC PUBLICATION

Factors affect the deposition of carbon nanotubes using spray pyrolysis technique- EgyCorr conference-2018

- Challenges on synthesis of carbon nanotubes from environmentally friendly green oil using pyrolysis technique – **Journal of Analytical and Applied Pyrolysis-2017**
- Synthesis and characterization of carbon nanostructures from green oil using thermal pyrolysis process. **8th International on Chemical and Environmental Engineering Conference– Military of Egypt – Cairo.**
- Electroless Ni-Cr-B on Diamond Particles for fabricated Copper/Diamond Composites as Heat sink materials" - Synchrotron-light for Experimental Science and Applications in the Middle East workshop **(SESAME)-Amman-Jordan**
- Fabrication and Characterization of Tungsten Heavy Alloys Using Chemical Reduction and Mechanical Alloying Methods- **Open Journal of Applied Sciences, 2013, 3, 15-27- doi:10.4236/ojapps.2013.31003**
- Fabrication and characterization copper/diamond composites for heat sink application using powder metallurgy - **Vol.3, No.11, 936-947 (2011) doi:10.4236/ns.2011.311120 – Natural Science.**

- REVIEWS AND EDITORIAL

Editorial Board Membership in SCIREA Journal of Chemistry.

Review a paper for the 3rd International Conference on

New Material and Chemical Industry-http://www.icnmci.org/

Organizing Committee for 2nd International Conference on Material Science and Engineering (ICMSE-RAC 2019).

SKILLS

TECHNICAL

- ICDL Certificate
- technical and scientific skills
- research and analytical skills
- a logical approach to problem solving
- communication and presentation skills, in order to write reports and papers for publication and to present your research at conferences
- the capacity to deal with complex issues both systematically and creatively
- the ability to collaborate with others and work well in a team
- project management skills
- the ability to use your initiative and to work alone
- numerical skills
- IT skills and the ability to use computer-controlled equipment

PERSONAL

- Self-motivated and Patience.
- Responsible.
- Adaptive to change, Stress-resistant.
- Analytical thinking.
- Able to think outside of the box.

PROFESSIONAL

- The ability to work independently and to identify the aims and objectives of a project from the outset.
- Teamwork and networking skills in an international context.
- The ability to argue a case effectively and to offer constructive criticism.
- Analytical and problem-solving skills to carry out complex tasks as well as to analysis a large amount of data/information.
- Enhanced communication skills and the ability to convey high-level information in a persuasive manner to a wide variety of audiences including the non-specialist.
- Excellent written skills, from extensive reports to technical papers.
- Time, project and stress management skills.
- Motivational skills and commitment.
- An inquiring mind.