

Curriculum Vitae



Personal Data data

Name : *Dina Mamdouh Fouad Fahmy*
Birth date : *August 10,1970*
Birth Place : *Assiut, Egypt.*
Marital status : *Married*
No. of Children : *Two*
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Academic Education

- **B.Sc. (Chemistry) Assiut University 1991.**
- **M. Sc.(Analytical Chemistry) Chemistry Department, Assiut University 1997.**
- **Ph.D. (Comparison between ELISA and Immuno-electrode techniques for the detection of terbuthylazine in aqueous media) the experiments were carried out in Mainz-Germany 1/ 1/ 2001 until 1/ 1/ 2003.**
- **Associate Professor 2011.**
- **Professor of inorganic chemistry 2017.**

Post Doctor fellowships

- DAAD Post-Doctoral fellowship in Mainz (Johanes Gutenberg universitate mainz) Germany Jun.-Sept. **2004**.

Professional Background

- Demonstrator, Chemistry Department, Assiut University **1991-1997**
- Assistant Lecturer, Chemistry Department, Assiut University **1997-2003**
- Lecturer of Analytical Chemistry, Chemistry Department, Assiut University **2003**.
- Associate professor, Chemistry Department, Assiut University **2011**.
- Professor of inorganic chemistry **2017**.

Research Experience

- Application of nanotechnology for purification of water samples using different synthesized nanoparticles for the degradation and detection of pesticides.
- Material Science (synthesis and characterization of nanomaterials).
- Electrochemical sensors and biosensors.
- Analyzing water samples and detecting trace levels of the pesticides used in agriculture using new and simple techniques such as ELISA Technique, Immuno-electrodes and High Performance Liquid Chromatography(HPLC).

Prizes

- 1- King Abdullah Ebn Elhossien creativity award **2012** (Jordan)
- 2- Excellence in Scientific Publication Awards (ESCPA) **2011-2012**.

Projects

- 1- Project coordinator of Mobility Italian –Egyptian project "*Multifunctional organic inorganic materials based on metal phosphonates*" Mobility project EG13MO between Assiut university and Institutodi struttura dell Materia (CNR- Rome) Italy **2012-2015**.

- 2- 5055, Science and Technology Development Fund (STDF) Egypt, *Rationale Development of Mesoporous Core/Multi-Shells Silica Nanoparticles for the Early Detection and Potential Treatment of Hepatitis C virus, PI .*
- 3- Erasmus higher education international credit mobility staff mobility for teaching (Universidad De Santiago De Compostella) **2018**

International conferences

- **Fourth International Conference on Multifunctional, Hybrid and Nanomaterials**
9-13 March 2015 sigtes- spain.
- **Advances in function materials (14-17 August 2017)** university of California Los Angeles USA.
- **The 9th International Conference on Sugar and Integrated Industries (18-21 November - ICSII 2018)** Luxor, Egypt.

References

- 1- *Prof. Dr. Wolfram Baumann,*
Professor of Physical Chemistry, Institute of Physical Chemistry, Mainz University, Germany.
E-mail: wbaumann@mail.uni-mainz.de
- 2- *Prof Dr. Pfeifer-Fukumura*
Professor of Physical Chemistry, Institute of Physical Chemistry, Mainz University, Germany.
E-mail pfeifer@mnd-umwelttechnik.fh-wiesbaden.de
- 3- *Prof. Dr. Said Ahmed Ibrahim*
Professor of Inorganic Chemistry, Chemistry Department, Assiut University, Egypt
Email: saidib@acc.aun.eun.eg
- 4- **Dr. Bauer Elvira Maria**
Istituto Di Struttura DELLA Materia {CNR} rome.Italy
Email : elvira.bauer@ism.cnr.it

List of publications

2020

- 1- A A Kassem, HN Abdel hamid, **D M Fouad**, SA Ibrahim, Hydrogenation reduction of dyes using Metal-organic frameworks derived CuO @ C, **Microporous and mesoporous Materilas 110340, 2020.**
- 2- A A Kassem, HN Abdel hamid, **D M Fouad**, S A Ibrahim, Catalytic reduction of 4-Nitrophenol using Copper Tetraphthalate frameworks and CuO @ C composite, **Journal of Environmental chemical Engineering, 104401, 2020.**

2019

- 3- A A Kassem, HN Abdel hamid, **D M Fouad**, S A Ibrahim, Metal-organic frameworks (MOFs) and MOFs-derived CuO@ C for hydrogen generation from sodium borohydride, **International Journal of Hydrogen Energy, Elsevier, Volume 44, Issue 59, , 31230-31238, , 2019.**

2018

- 1- **Green synthesis of magnetic mesoporous silica nanocomposite and its adsorptive performance against organochlorine pesticides**
W. A. El-Said, **D. M. Fouad**, M. H. Ali, M. A. El-Gahami, **J. Environ. Sci. Technol. 15, 1731–1744 (2018).**
- 2- **Synthesis, structural studies and antimicrobial activities of manganese, nickel and copper complexes of two new tridentate 2-formylpyridine thiosemicarbazone ligands**, Ibrahim, A.B.M. , Farh, M.K, El-Gyar, S.A., EL-Gahami, M.A.^a, **Fouad, D.M.^a**, Silva, F., Santos, I.C., Paulo, A , **Inorganic Chemistry Communications, 96, Pages 194-201,(2018)**

2017

- 3- **Spectroscopic and structural studies of nano-sized bioactive materials based on metal mercaptotriazole assemblies, D. M. Fouad, A. M. Hammam (the late) M. A. El-Gahami, Z. A. Khafagy, M. S. Al-Salimi and S. A. Ibrahim, **Journal Of Materials and Environmental Science**, 8, 444-456 (2017).**
- 4- **Silica–Gold Nanocomposite for Removal of Organophosphorous Pesticides Dina M. Fouad , Waleed A. El-Said, Mohamed H. Ali , Mohamed A. El-Gahami . **Plasmonics** 12, 869-875, (2017).**
- 5- **New Methods for the Preparation Nanosized Metal Coordination polymers, Fouad, D.M. , Aly, A.A.M., Mohammed, M.I.A. **Journal of olymers and the Environment** 25,25-34 ,(2017)**
- 6- **Spectroscopic and structural studies of nano-sized bioactive materials based on metal mercaptotriazole assemblies, D. M. Fouad, A. M. Hammam (the late), M. A. El-Gahami, Z. A. Khafagy,1 M. S. Al-Salimi and S. A. Ibrahim, **Journal of materials and Environmental Sciences ISSN : 2028-2508 JMES**, <http://www.jmaterenvironsci.com/> 8, 2, 444-456, (2017).**

2016

- 7- **Ultrasensitive label-free detection of cardiac biomarker myoglobin based on surface-enhanced Raman spectroscopy,**
Waleed A. El-Said, Dina M. Fouad, Sherif A. El-Safty , **Sensors and Actuators B** 228, 401–409, (2016).
- 8- **Selective Electrochemical Detection of Epinephrine Using Gold Nanoporous Film. Dina M. Fouad , Waleed A. El-Said, **journal of nanomaterials**, Volume 2016 (2016), Article ID 6194230, 8 pages**
- 9- **Size and Morphological Controlled of Gold Nanoparticles based on Deposition Time,**
Waleed Ahmed El-Said , Dina M. Fouad, **Trends in Nanotechnology & Material Science**, 1, 1-5, (2016).

2015

- 10- Spectroscopic characterization of magnetic Fe₃O₄@Au core shell nanoparticles, D. M. Fouad, W.A.Said, M.B.Mohamed, **Spectrochimica Acta Part A**, 140, 392-397(2015)

2013

- 11- Malathion-Induced Surface Coupling with Gold Nanoparticles, D. M. Fouad, M. B. Mohamed. **Plasmonics**, 8, 937–941 (2013).

2011

- 12- Studies on the photo-catalytic activity of semiconductor nanostructures and their gold core–shell on the photodegradation of malathion
Dina Mamdouh Fouad, Mona Bakr Mohamed, **Nanotechnology** 22 (2011) 455705.
- 13- Photodegradation of chloridazon using coreshell magnetic nanocomposites.
Dina Mamdouh Fouad, Mona Bakr Mohamed, **journal of nanotechnology**, vol. 2011, Article ID 416060, 7 pages, 2011. doi:10.1155/2011/416060
- 14- Photodegradation of pesticides using core-shell nanocomposites in waste water. Dina Mamdouh Fouad, Nader Kamel Abdel Moniem, Mona Bakr Mohamed, **Materials Science : An Indian Journal** (2011).
- 15- Synthesis and thermal studies on new Co(II), Ni(II), Cu(II), and Cd(II) mixed ligand complexes with 3-benzyl-4-amino-1,2,4- triazole-5 Sciff bases and α,α' -bipyridyl. Dina Mamdouh Fouad*, Ahmed Bayoumi, Mohamed Abd El Hakim El Gahami, Said Ahmed Ibrahim, Abbas Mohamed Hamman., **Analytical Chemistry: An Indian Journal**, 10,1, (2011).

2010

16- Synthesis and thermal studies of mixed ligand complexes of Cu(II), Co(II), Ni(II) and Cd(II) with mercaptotriazoles and dehydroacetic acid.

*Dina M. Fouad**, Ahmed Bayoumi, Mohamed A. El-Gahami, Said A.

Ibrahim, Abbas M. Hammam, **Natural Science**, 2, 8, 817-827 (2010).

2009

17- Thermal analysis and thermokinetics studies on homobinuclear, Cu^{II}, Co^{II}, Ni^{II} and Cd^{II} complexes with 4- amino-3,5-di(2-Pyridyl)1,2,4-triazole. *D.M. Fouad*, M.A.El-Gahami, **Inorganic chemistry , an Indian journal**,4,3, 89- 96,(2009).

2007

18- Development of a new immunosensor for the detection of Dopamine .

Dina Fouad. **Zeitschrift für Naturforschung C**, 62c, 613(2007).

19- Kinetics of the substitution of dehydroacetic acid in tris (dehydroacetato) Fe(III) complex by 8-hydroxyquinoline, di-and tetra-hydroxyquinone

D. M. Fouad, N. M. Ismail, M. A. Elgahami, S. A. Ibrahim, **Spectrochimica Acta Part A**, 67, 564(2007).

20- Spectroscopic, Cyclic Voltammetry, Thermal and Biological Activity Studies of Co(II), Ni(II) and Cu(II)Complexes of Novel Azo Dyes Derived From Thiadiazole Compounds

N. M. Rageh, *D. M. Fouad*, Z. A. Khafagi and M. A. El-Gahami, **Polish J. Chem.**, 81, 1785(2007).

2006

21- Comparison of an Indirect Format ELISA on Modified Graphite and Polystyrene Surfaces against Triazines

Dina Fouad, Iris Sound, Heike Holthues, Ursula. Pfeifer-Fukumura, Abbas M. Hammam, Said A. Ibrahim and Wolfram Baumann, **Z. Natuforsch**, 61c, 295 (2006).

2003

- 22- **Medium Effect on the Acid Dissociation Constants of 2,2',6',2''- Terpyridine,** Mohamed A. El-Gahami, Said A. Ibrahim, **Dina M. Fouad**, and Abbas M. Hammam. **J. Chem. Eng. Data**, 48, 29(2003).
- 23- **Dinuclear Polypyridine Complexes of 2,4,6- Tris (2-Pyridyl)-1,3,5-Triazine: Mixed Ligand Ni (II), Co(II) and Cu(II) Complexes Containing Dithiooxamide and Thiosemicarbazide.** S.A.Ibrahim, A.M. Hammam, M.A. El-Gahami, and **D. M. Fouad**. **Bulletin of the Polish Academy of Sciences Chemistry**, 51, 2(2003).
- 24- **Investigations of Co(II), Ni(II) and Cu(II) (2,2': 6,2''- Terpyridine) Complexes with Sulfur Donor Ligands.**
A. M. Hammam, S. A. Ibrahim, M. A. El- Gahami and **D. M. Fouad**. **Journal of Thermal Analysis and Calorimetry**, 74 (2003).