

Curriculum Vitae

Rania Ahmed Fouad

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Work address: Faculty of
Education, Department of
Chemistry, Ain Shams University,
Roxy, Cairo, Egypt.

PERSONAL DATA

Date of Birth: Feb 16, 1985

Country of Nationality: Egypt

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EDUCATION

- **B.Sc. in chemistry (v. good, honour degree), 2006 .** *from Department of Chemistry, Faculty of Education, Ain Shams University, Cairo, Egypt.*
- **General Diploma in Inorganic Chemistry,(Excellant , honour degree) , 2007**
Chemistry Department (Inorganic Chemistry Division), Faculty of Education, Ain Shams University
- **Special Diploma in Inorganic Chemistry, ,(Excellant , honour degree) , 2008**
Chemistry Department (Inorganic Chemistry Division), Faculty of Education, Ain Shams University
- **M.Sc. in chemistry (Excellant, honour degree), 2012.** *from Department of Chemistry, (Inorganic Chemistry Division) Faculty of Education, Ain Shams University, Cairo, Egypt.*
- **PHD in chemistry 2016.** *from Department of Chemistry, (Inorganic Chemistry Division) Faculty of Education, Ain Shams University, Cairo, Egypt.*

ACADEMIC NOMINATIONS AND APPOINTMENTS

- **Lecturer of Inorganic Chemistry (2017-now)**
Department of Chemistry, Faculty of Education, Ain Shams University.
- **Assistant Lecturer of Inorganic Chemistry (2012-2016)**

Department of Chemistry, Faculty of Education, Ain Shams University.

- **Demonstrator of Inorganic Chemistry (2007--2012)**

TEACHING SKILLS

Teaching the following practical courses for Under graduate Students:

- Analytical Chemistry.
- Environmental Pollution.
- Photochemistry.
- Nanotechnology
- Inorganic chemistry
- Instrumental methods for analytical chemistry .
- Complexometry.

SKILLS

- **Experience in the handling the following lab facilities:**
 - * Spectrophotometer
 - * Spectrofluorometer
 - * Photoreactors and Light source measurements
 - * TGA/DSC analysis
 - * Magnetic moment measurement
 - * Data analysis using standard scientific software including Origin

Teaching burdens

1. General chemistry
2. Inorganic chemistry (instrumental method for analytic analysis)
3. Complexometry

LIST OF PUBLICATIONS

1. Synthesis and Thermal Studies of Tetraaza Macrocylic Ligand and its transition metal Complexes. DNA binding and anti-tumor activities on copper complex

M. Saif, Mahmoud M. Mashaly, Mohamed F. Eid, R. Fouad, **Spectrochimica Acta: Part A**, 79 (2011) 1849.

2. Synthesis, Characterization and Thermal Studies of Binary and/or mixed ligand complexes of Cd(II), Co(III), Cu(II), Ni(II) based on 2-Hydroxybenzylidene thiosemicarbazone. DNA Binding Affinity of Binary Copper Complex.

M. Saif, Mahmoud M. Mashaly, Mohamed F. Eid, R. Fouad, **Spectrochimica Acta: Part A**, 92 (2012) 347.

3. Synthesis, characterization, and antioxidant/cytotoxic activity of new chromone Schiff base nano-complexes of Zn(II), Cu(II), Ni(II) and Co(II).

M. Saif, Hoda F. El-Shafiy, Mahmoud M. Mashaly, Mohamed F. Eid, A.I. Nabeel, R. Fouad, **Journal of Molecular Structure** 1118 (2016) 75.

4. Hydrothermal preparation and physicochemical studies of new copper nano-complexes for antitumor application.

M. Saif, Hoda F. El-Shafiy, Mahmoud M. Mashaly, Mohamed F. Eid, A.I. Nabeel, R. Fouad, **Journal of Molecular Structure** 1155 (2018) 765.

5. Synthesis, Characterization, Photoluminescence and Cytotoxic Properties of Novel Luminescent Eu(III) complexes based on Chromone Schiff base.

M. Saif, Hoda F. El-Shafiy, Mahmoud M. Mashaly, Mohamed F. Eid, A.I. Nabeel, R. Fouad, **Journal of Molecular Structure** 1161 (2018) 26.

6. New nano-complexes of Zn(II), Cu(II), Ni(II) and Co(II) ions; spectroscopy, thermal, structural analysis, DFT calculations and antimicrobial activity application

New nano-complexes of Zn(II), Cu(II), Ni(II) and Co(II) ions; spectroscopy, thermal, structural analysis, DFT calculations and antimicrobial activity application

M. Saif, Hoda F. El-Shafiy, Mahmoud M. Mashaly, Mohamed F. Eid, A.I. Nabeel, R. Fouad, **Journal of Molecular Structure** 1147 (2017) 452.

7. Novel multi-functional Pr³⁺:Bi₁₂SiO₂₀ luminescent nano-sensor for latent human prints, iron ions in drinking water and anti-counterfeiting application,

H. R. Mahmoud, M. Saif, R. Fouad, **Journal of alloys and compound**. 805 (2019) 887.

8. Novel Bi-functional Lanthanide-centered Nanophosphors For Latent Fingerprint Detection and Anti-counterfeiting Applications

M. Saif, R. Fouad, **Appl Organometal Chem.**, (2019)

9- Synthesis and Fundamental Characterization of Diverse Properties of Biocompatible Cd (II) Phosphor Complex for Cytotoxic Activity and Latent Fingerprint Detection

R. Fouad, **Appl Organometal Chem.**, 2020;34:e5497.

10- Photoluminescence and cytotoxicity properties of new quinolinone lanthanide nano-complexes

R. Fouad, H.F. El-Shafiy, **Journal of Molecular Structure** 1190 (2019) 68.

11- Synthesis, spectroscopic and photoluminescence studies of novel Eu(III) nanophosphor complex as fluorescent sensor for highly sensitive detection of latent fingerprints and anti-counterfeiting

R. Fouad , M. Saif, **Journal of Molecular Structure** 1217 (2020) 128472.

12- Novel Cu²⁺ and Zn²⁺ nanocomplexes drug based on hydrazone ligand bearings chromone and triazine moieties: Structural, spectral, DFT, molecular docking and cytotoxic studies

R. Fouad, Omima M.I. Adly, **Journal of Molecular Structure** 1225 (2020) 129158.

13- Synthesis and Characterization of Novel Lanthanide Complexes as Potential Therapeutic Agents

R. Fouad, **Journal of Coordination Chemistry**, 72 (2020) 2015.

Graduate Students Under Supervision and did not nominate Their Degrees

1. Student Name: Eman El-Sayed

Degree: Ph.D. Degree in Chemistry (Inorganic Chemistry).

University: Ain Shams University, Faculty of Education.

2- Student Name: Suzy Gamal Zekry

Degree: M.Sc. Degree in Chemistry (Inorganic Chemistry).

University: Ain Shams University, Faculty of Education.