

Curriculum Vitae

1- Personal Data:

Name : Mostafa Farrag Mostafa Farrag

Gender : Male

Nationality : Egyptian

Date of Birth : September 26,1975

Place of Birth : Assiut-Egypt

Occupation : lecturer (Assistant professor) in Assiut University, Egypt

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Current Address: Chemistry department, faculty of science, Assiut University, Egypt



2- Academic Degrees Obtained:

1994-1998 : B.Sc. Chemistry, very good with honor grade, Assiut University, **Egypt**.

2000-2002 : Preparatory courses two years in organic, physical and inorganic chemistry, Assiut university, **Egypt**.

2003: **International Course “Technology of new Materials”** in Faculty of Engineering/Industrial Engineering, Applied Sciences University, Wildau, **Berlin, Germany, granted by DAAD**.

2004-2007 : **M.Sc. in Photocatalysis:** “TiO₂ - Photocatalytic Oxidation of Selected Alcohols”, Chemistry department, Assiut university, **Egypt**.

2009-2013: Ph.D. in Monolayer Protected Nanoclusters: “Preparation of Monolayer-Protected Gold and Silver Nanoclusters and their Optical, Chiroptical and Photochemical Characterization”, **with very good grade**, Physical chemistry department Technische Universität München (TUM), **Germany**.

2013-2014: Post doctor researcher in Prof. Dr. Ulrich Heiz group, TU Munich, **Germany**.

3- Research interests:

- Monolayer Protected Nanoclusters
- Renewable energy
- Solar energy
- Photocatalysis
- Electrocatalysis/ Fuel cell
- Catalysis/enantioselective Catalysis

4- List of publications:

- 1- O. S. Mohamed, S. A. Ahmed, **Mostafa F. Mostafa** and A. A. Abdel-Wahab; “TiO₂ Nanoparticles–Photocatalytic Oxidation of Selected Cycloalkanols” International Journal of Photoenergy, Volume **2008**, Article ID, 205358, 11 pages. (Citations: 5)
- 2- O. S. Mohamed, S. A. Ahmed, **Mostafa F. Mostafa** and A. A. Abdel-Wahab; “Nanoparticles TiO₂–Photocatalyzed Oxidation of Selected Cyclohexyl Alcohols, Journal of Photochemistry and Photobiology A: Chemistry, 200, 209-215 (**2008**). (Citations: 13)
- 3- A. A. Abdel-Wahab, O. S. Mohamed, S. A. Ahmed and **Mostafa F. Mostafa** “Ag-doped TiO₂ enhanced photocatalytic oxidation of 1,2-cyclohexanediol” J. Phys. Org. Chem., **2012**, 25, 1418–1421. (Citations: 6)
- 4- **Mostafa Farrag**, Martin Thämer, Martin Tschurl, Thomas Bürgi and Ulrich Heiz; “Preparation and Spectroscopic Properties of Monolayer-Protected Silver Nanoclusters” J. Phys. Chem. C 116, 8034–8043 (**2012**). (Citations: 24)
- 5- **Mostafa Farrag**, Martin Tschurl, and Ulrich Heiz, “Chiral Gold and Silver Nanoclusters:Preparation, Size-Selection and Chiroptical Properties”, Chem. Mater. 25, 862·870 (**2013**). (Citations: 16)
- 6- **Mostafa Farrag**, Martin Tschurl, Amala Dass, and Ulrich Heiz, “Infra-red Spectroscopy of Size Selected Au₂₅, Au₃₈ and Au₁₄₄ Ligand Protected Gold Clusters”, Phys. Chem. Chem. Phys. 15, 12539-12542 (**2013**). (Citations: 6)
- 7- **Mostafa Farrag**, Martin Tschurl, and Ulrich Heiz, “Mirror image Chirality of Gold and Silver Nanoclusters”, Langmuir, **2015 (Submit)**.
- 8- **Mostafa Farrag**, “Solar Degradation of Methylene Blue in ~1 nm Pt_n(L-Cys)_m Nanoclusters Doped Anatase Titanium Dioxide“, **2015 (Submit)**.
- 9- **Mostafa Farrag**, Preparation, Characterization and Catalytic Properties of Size Selected Platinum Clusters”, **in preparation**.
- 10- **Mostafa Farrag**, “Heterogeneous Solar Photocatalytic Oxidation of Benzyl Alcohol over L-Cysteine Protected Palladium Nanoclusters”, **in preparation**.

5- Languages:

- Arabic: Mother Tongue.
- English: Very good, International Toefl (iBT).
- German: Good, Test Daf.
- French : Fair

6- Teaching skills:

I worked as assistant lecturer in faculty of science, Assiut University, Egypt nearly ten years (1999-2009), during this period I taught all the chemistry branches physical, inorganic, analytical and organic chemistry for different students (Chemists, Biologists, Pharmacists, Engineers and teachers). From 2010-2014 I taught also all the chemistry branches in faculty of chemistry, Technische Universität München (TUM), Germany. From 2014 till now I teach physical and inorganic chemistry lectures in Assiut University, Egypt.

7- Conferences:

- 1- 2nd Spring School on Current Activities of Materials Science (Assiut University, **Assiut, Egypt**, April 2001.
- 2- The 9th International Conference on Solar Energy and Applied Photochemistry and the 6th International Training workshop on Environmental Photochemistry, **Solar '7** Cairo, **Egypt**, January 2006.
- 3- The First Conference for young Scientists Basic Science and Technology, **Assiut, Egypt**, May 2007 (**I won with the best oral presentation prize**).
- 4- The International Conference and Training workshop on Molecular / Nano Photochemistry, Photocatalysis and Solar Energy Conversion, **Solar '8**, Cairo, Egypt, February 24- 28,2008.
- 5- The International Conference and Training workshop on Powering a Greener Future: Nanomaterials and Solar Energy Conversion, **Solar '9**, Luxor, **Egypt**, January 10-14, 2009.
- 6- 3rd International Symposium of the Catalysis Research Center (CRC) “Frontiers in Heterogeneous Catalysis” Technische Universität München (TUM), Fakultät für Chemie, München, **Germany** from October 22-23, 2010.
- 7- International Symposium on Monolayer-Protected Clusters (ISMPC11) in Jyväskylä, **Finland**, June 6-9, 2011.
- 8- 15th International Congress on Catalysis (ICC) in Munich, **Germany**, 1-6th July 2012.
- 9- 2nd International Conference on Advanced Complex Inorganic Nanomaterials, Namur, **Belgium** 15th-19th July 2013.

10- 28th European Photovoltaic Solar Energy Conference and Exhibition, **Paris, France**, 30th September – 4th October 2013.

8- Projects:

- 1- Enhancement and Development of Organic Chemistry Teaching Program for the Bachelor Degree of Science (Chemistry Major) (EDOCTEP, B-048, IO), September 2004-December 2006.
- 2- Materials and Nano Science Research Center (MNSRC), January 2008-December 2010.

9-Workshops and skills:

- 1- I am a graduate member in the **Graduate School**, Technische Universität München (TUM) **Germany**.
- 2- Workshop on Energy and Sustainability: Materials and Processes, organized by chemistry department, Northwestern University and Catalysis Research Center (CRC), Technische Universität München (TUM), München, **Germany** May 13-14, 2011.
- 3- Workshop on Conflict Management, Graduate School, Technische Universität München (TUM), **Germany**, 28 and 29 January 2013.
- 4- Workshop on Fit für die Doktorarbeit, Graduate School, Technische Universität München (TUM) **Germany**, 30 January 2013.
- 5- Workshop on How to present papers and posters at international conferences, Graduate School, Technische Universität München (TUM) **Germany**, 20-22 February 2013.
- 6- Workshop on Science Year Follow Up event, Organized by German Academic Exchange Service (DAAD), at the Conference Center of Cairo University, **Egypt**, 10th and 11th November 2008.
- 7- Workshop on German Alumni Fair, Organized by German Academic Exchange Service (DAAD), at the Conference Center of Cairo University, **Egypt**, 12th and 13th November 2008.