



وزارة التعليم العالي
المعهد العالي للهندسة والتكنولوجيا بطنطا



Curriculum Vitae

Dr. Mohamed Ahmed Mohamed Mahmoud

Doctor of Physical Chemistry,
Chemical Engineering Department,
Tanta Higher Institute of Engineering and Technology, Tanta , Egypt.



1. PERSONAL INFORMATION

Name	Mohamed	Surname	Mahmoud
Date of birth (Day/month/year)	25/11/1966	Place of birth (Country - City)	Egypt – El-Menoufia
Nationality	Egyptian	Sex (M / F)	Male
Marital status	Married	Number of Children	one
Occupation	Lecturer from 2018 to date	Major area	Physical Chemistry/ Chemical Engineering

Specialization area	Physical Chemistry [Quantum Chemistry, Computational Chemistry, Nanochemistry, Material Science, New and Renewable Energy]	Permanent address	Barawi, Tala City, El-Menoufia, Egypt.
E-mail address	Chem.mohamed94@yahoo.co.uk	Tel.	Mob. 00201063246897

2. LANGUAGES

Languages	Level
English	I have a good level in " reading , writing and listening ".

3. OCCUPATIONS

Occupations	Place (University, City, Country)	Time
lecturer	Chemical Engineering Department, Technological Higher Institute of Engineering at Tanta, Egypt.	2018 to date

4. SCIENTIFIC DEGREE

- Ph. D. Degree:

Physical Chemistry [Quantum Chemistry, Computational Chemistry, New and Renewable Energy],
Chemistry Department, Faculty of Science, Menoufia University, Shebin El-Kom, Egypt, 2017.

The title of Ph. D. thesis is:

**"Calculation and Analysis of the Thermal and Kinetic Parameters for the Formation and
Decomposition of Some Oxygenated Compounds as Surrogates for Fossil Fuel"**

- M. Sc. Degree:

Physical Chemistry [Quantum Chemistry, Computational Chemistry, Nanochemistry, Material Science],

Chemistry Department, Faculty of Science, Menoufia University, Shebin El-Kom, Egypt, 2013.

The title of M. Sc. thesis is:

" Fabrication and Characterization of Novel System of Nanocrystals Embedded in Borophosphate Glass Matrix "

- Diploma Degree:

1- Diploma in "Business Administration", Administration Department, Faculty of Commerce, Menoufia University, Shebin El-Kom, Egypt, 2014.

2- Diploma in "Education" Methods of Science Teaching Department, Faculty of Education, Menoufia University, Shebin El-Kom, Egypt, 1992.

3- Diploma in "Applied Chemistry" Chemistry Department, Faculty of Science, Menoufia University, Shebin El-Kom, Egypt.

- B. Sc. Degree:

Chemistry Department, Faculty of Science, Menoufia University, Shebin El-Kom, Egypt.

5. TEACHING EXPERIENCE

The following courses were taught to undergraduate students:

a- **"Water Treatment"**, Fourth Year Students, Chemical Engineering Department, Technological Higher Institute of Engineering at Tanta, Egypt.

b- **"Physical Chemistry"**, First Year Students, Chemical Engineering Department, Technological Higher Institute of Engineering at Tanta, Egypt.

c- **"Thermodynamics"**, First Year Students, Chemical Engineering Department, Technological Higher Institute of Engineering at Tanta, Egypt.

d- **"Quality of Education"**, First- Fourth Year Students, Chemical Engineering Department, Technological Higher Institute of Engineering at Tanta, Egypt.

e- **"Business Administration"**, Third Year Students, Chemical Engineering Department, Technological Higher Institute of Engineering at Tanta, Egypt.

8. PUBLICATIONS (last 5 years)

8.1. Scientific Researches

- [1] S. Wageh, Ahmed M. El-Nahas, Anwer A. Higazy, **Mohamed A. M. Mahmoud**, Preparation and characterization of a novel system of CdS nanoparticles embedded in borophosphate glass matrix, *Journal of Alloys and Compounds* 555, 2013, 161–168.;
- [2] **Mohamed A. M. Mahmoud**, Safinaz H. El-Demerdash, Ahmed H. Mangood, and Ahmed M. El-Nahas, Modeling of Thermochemistry of Thermal Decomposition of Methyl Propionate and Ethyl Acetate Biodiesel, *International Journal of ASTR* 7, 2017, 2, 190–202.;
- [3] **Mohamed A. M. Mahmoud**, Safinaz H. El-Demerdash Tarek M. El-Gogary, Ahmed M. El-Nahas, Atmospheric Oxidation of Methyl Propanoate by the OH radical, *Russian Journal of Phys. Chem. A*, 92, 2018, 12, 2475–2483.;
- [4] **Mohamed A. M. Mahmoud**, Abolfazl Shiroudi, Mohamed A. Abdel-Rahman, Mohamed F. Shibl, Safwat Abdel-Azeim, Ahmed M. El-Nahas, Structures, Energetics, and Kinetics of H-atom Abstraction from Methyl Propionate by Molecular Oxygen: Ab Initio and DFT Investigations, *Journal of Computational and Theoretical Chemistry*, 1196 2021, 113119-113128.;
- [5] Jamelah S. Al-Otaibi, Mohamed A. Abdel-Rahman, Aljawhara H. Almuqrin, Tarek M. El-Gogary, **Mohamed A. M. Mahmoud**, Ahmed M. El-Nahas, Thermo-kinetic theoretical studies on pyrolysis of dimethoxymethane as a biodiesel model, *Journal of Fuel*, 2021.;
- [6] Jamelah S. Al-Otaibi, **Mohamed A. M. Mahmoud**, Aljawhara H. Almuqrin, Tarek M. El-Gogary, Ahmed M. El-Nahas, Thermochemistry and kinetics of hydrogen abstraction from a biodiesel methyl propionate by H and CH₃ radicals, *Journal of Structural Chemistry*, 2021 <https://doi.org/10.1007/s11224-021-01746-6>.;
- [7] **Mohamed A. M. Mahmoud**, Ahmed M. El-Nahas, Biodiesel Combustion. Kinetics and Thermochemistry of H-atom Abstraction from Methyl Propionate by $\dot{O}^{(3P)}$ and O₂H Radicals: Ab Initio Study, *Journal of Molecular Structure*, 2021 under review.;
- [8] Abdel-Rahman MA, El-Nahas AM, Simmie JM, Abdel-Azeim S, El-Demerdash SH, El-Meligy AB, **Mahmoud MAM**, A W1 Computational Study on the Kinetics of Initial Pyrolysis of Biodiesel Model: Methyl Propanoate, *J.NJC* 2021.;
- [9] El-Meligy, Asmaa; El-Demerdash, Safinaz; Abdel-Rahman, Mohamed; **Mahmoud, Mohamed A. M.**, El-Nahas, Ahmed, Structures, Energetics, and Spectra of (NH) and (OH) Tautomers of 2-(2-Hydroxyphenyl)-1-azaazulene and its Mercapto Analogue: A DFT/TDDFT Study, *J.ACS Omega* 2022, under review.;
- [10] **Mohamed A. M. Mahmoud**, Mohamed F. Shibl, Ahmed M. El-Nahas, A computational kinetic study on the unimolecular thermal decomposition of ethoxy quinoline and isoquinoline 2022, under review.;
- [11]

9. CONFERENCE (last 5 years)

1. 1st International conference of **Water Treatment**, Faculty of Science, **Menoufia University, Egypt 2008.**;
2. The scientific symposium of the **Japanese-Egyptian Society** for the development of Science "**JSPS**", Technological Higher Institute of Engineering at Tanta, Egypt, 13 October **2018.** ;
3. 13th International Conference on **Mining, Petroleum and Metallurgical Engineering "MPM13"**, Faculty of Petroleum and Mining Engineering, Suez University, Egypt, 25-27 October **2019.**;
4. 1st International conference on **Biomedicine and Bioethics (The Contemporary International and Regional Perspectives)**, Faculty of Law, **British University, Egypt, 3-5 November 2019.**;
5. 29th International conference and exhibitions on **Electricx, Power, Solar-Tec and Firex, Ministry of Electric and Power**, Egypt International Exhibitions Center, **Egypt, 3-5 November 2019.**;
6. 7th International conference on "**The Mitigation Enabling Energy Transition in the Mediterranean region (meetMED)**", meetMED Regional Conference on "Mapping EE and RES market potential areas with higher impact on local economy and job creation" project, [Regional Center for Renewable Energy and Energy Efficiency "RCREEE"](#), **Egypt, Semiramis Intercontinental Hotel, 12 November 2019.**;
7. The scientific symposium on "**Water between Reality and Future Challenges**", **Menoufia University- Egypt, 13 November 2019.** ;
8. International conference on **Global Entrepreneurship Week 2019**, **American Center Cairo "ACC", U.S. American Embassy, Cairo- Egypt, 18-23 November 2019.**;
9. International conference on **Connected Worlds event on in Smart Business Track, IEEE, Tanta University, Egypt, 24, 25 November 2019.**;
10. International conference on **Engineering Materials Science "EMSC"**, ESME, Zewail City of Science and Technology, **Cairo- Egypt, 14 Desember 2019.**;
11. 3rd International conference on **creativity, innovation and scientific research "Digital Transformation Future Prospects"**, The **National Council for Training and Education, the African Economic Council and the Sadat Academy for Administrative Sciences, Cairo- Egypt, 8 February 2020.**;
12. International conference on "**Natural products, medicinal and agrochemical explorations "** **Japanese-Egyptian Society** for the development of Science "**JSPS**", **Alexandria Library, Alexandria University, Egypt, 15 February 2020.**;
13. The scientific symposium on "**Digital Transformation Future Prospects**" **Cisco Academy, Technological Higher Institute of Engineering at Tanta, Egypt, 13 March 2020.** ;
- 14.

10. TRAINING AND WORKSHOPS

1. 7 Courses in International Computer Driving License "**ICDL**", **UONISCO, Cairo, Egypt, 2011.**
2. 15 courses in education quality and accreditation, under title "**Reviewer of Education Quality and Accreditation**" at the **National Authority for Quality Assurance and Accreditation of Education, Cairo, Egypt, 2011-2015.**
3. 2 courses in "**Human Development**" in the art of communication and social communication - time management and work pressures, Faculty of Science, **Menoufia University- Egypt 2012.**
4. 4 Courses in **Training of Trainer "TOT" -Educational General Trainer - Professional Academy for Teachers "PAT", Cairo, Egypt, 2016-2020.**
5. Course in English Language "**APTS**", **British Council, Cairo, Egypt, 2015.**
6. Course in English Language "**TOEFEL**", **International Language Center, Cairo University- Egypt 2017.**
7. **Entrepreneurship -Workshops at the American Corner at Maadi Library, the American Center - U.S. American Embassy in Cairo, Egypt, 18-23 November 2019.**

8. **Entrepreneurship** –Workshops, Faculty of Engineering, Tanta University, Egypt 2008.
9. **Entrepreneurship** -Workshops, E-Youth for Consulting and Training, Cairo, Egypt, 10 February 2020.
10. Tanta Higher Institute of Engineering and Technology at Tanta, Egypt, "Workshop -Teaching", under title "Corse Specification", 12 November 2020.

11. PROFESSIONAL SOCIETIES

Besides my work in teaching:

1. I worked as "Reviewer of Education Quality and Accreditation" at The National Authority for Quality Assurance and Accreditation of Education, Cairo, Egypt, and I corporate in about 18 Accreditation Visits for many educational institutions, 2011- 2022.
2. I worked as "Educational General Trainer" for teachers, at Professional Academy for Teachers "PAT", Cairo, Egypt, 2016-2022.
3. I worked as General instructor, educated at Cisco Academy/"THIET", Technological Higher Institute of Engineering at Tanta, Egypt, 2020.
4. Very good background in computer programs as well as utilizing some standard software.

- ٥) المشاركة في اعداد وتقديم عدد من البرامج التليفزيونية: برنامج تبسيط العلوم- برنامج كاميرا التعليمية - الكيمياء الحاسوبية والطاقة الجديدة برنامج حديث التعليمية - برنامج صباح التعليمية -وتدور الحلقات عن والمتجددة كيمياء الأدوية -معالجة المياه والتكنولوجيا -.....- تكنولوجيا التعليم -التعليم الالكتروني والتعليم عن بعد -.....- قناة مصر التعليمية ١ التليفزيون المصري ماسبيرو ٢٠٢٠-٢٠٢١ .
- ٦) المشاركة في اعداد وتقديم احاديث اذاعية عن تكنولوجيا التعليم -التعليم الالكتروني والتعليم عن بعد- اذاعة القاهرة- اذاعة البرنامج العام- برنامج مصر لحظة بلحظة ٢٠٢٠-٢٠٢١ .

١٢. المشاركة في اللجان و الأنشطة المختلفة بالقسم:

١. المشاركة في لجان الامتحانات الفصلية بقسم الهندسة الكيميائية -المعهد العالي للهندسة والتكنولوجيا بطنطا "THIET".
 ٢. تأسيس وانشاء قناة يوتيوب "دكتور محمد محمود التعليمية" Dr Mohamed Ahmed Mohamed Mahmoud https://www.youtube.com/channel/UCTRs_aDqhNkxqnz686d7uUQ
- لخدمة طلاب المعهد -قسم الهندسة الكيميائية"THIET" وخدمة المجتمع 2020-2022.

3.

١٣. المشاركة في اللجان و الأنشطة المختلفة بالمعهد العالي للهندسة والتكنولوجيا بطنطا "THIET":

١. المشاركة في أعمال الامتحانات الفصلية بالمعهد.
٢. المشاركة في الندوة العلمية للجمعية اليابانية المصرية لتطوير العلوم "JSPS" المعهد العالي للهندسة والتكنولوجيا بطنطا "THIET" 13 اكتوبر 2018 .
٣. المشاركة في أعمال الجودة والاعتماد بالمعهد العالي للهندسة والتكنولوجيا بطنطا "THIET" 2020-2018.

٤. عضو فريق الجودة والاعتماد بالمعهد العالي للهندسة والتكنولوجيا بطنطا "THIET" 2018-2022.
٥. المشاركة في تأسيس وانشاء فرع أكاديمية سيسكو للتعليم الالكتروني والتدريب عن بعد بالمعهد العالي للهندسة والتكنولوجيا بطنطا "THIET" مارس 2020.
٦. الاشراف علي الدورات التدريبية: فرع أكاديمية سيسكو للتعليم الالكتروني والتدريب عن بعد بالمعهد العالي للهندسة والتكنولوجيا بطنطا "THIET" مارس 2020.
- 7.

