

المعهد العالي للهندسة والنكنولوجيا بطنطا

المنشأ بالقرار الوزاري رقم 832 لسنة 2012



TANTA HIGHER INSTITUTE OF ENGINEERING AND TECHNOLOGY (THIET)



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بطنطا



Curriculum Vitae

Dr. Mohamed Ahmed Mohamed Mahmoud

Lecturer of Physical Chemistry,
Basic Sciences Department,

Tanta Higher Institute of Engineering and Technology, Tanta, Egypt.



1. PERSONAL INFORMATION

Name	Mohamed	Surname	Mahmoud	
Date of birth	25/11/1966	Place of birth	Egypt – El-Menoufia	
(Day/month/year)		(Country - City)		
Nationality	Egyptian	Sex (M/F)	Male Four	
Marital status	Married	Number of Children		
Occupation	Assistant Professor of Physical	Major area	Physical Chemistry	
	Chemistry from 2018 to date			
Specialization	Physical Chemistry [Quantum	Permanent address	Barawy, Tala City, El-	
area	Chemistry, Computational Chemistry,		Menoufia, Egypt.	
	Nanochemistry, Material Science, New			
	and Renewable Energy]			



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E-mail address	Drmohamed.mahmoud@thiet.edu.egC	Tel.	Mob. 00201063246897
	hem.mohamed94@yahoo.co.uk		

2. LANGUAGES

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

3. OCCUPATIONS

Occupations	Place (University, City, Country)	Time	
Lecturer of	Basic Sciences Department,	2018 to date	
Physical Chemistry	Tanta Higher Institute of Engineering and Technology, Tanta,		
	Egypt.		
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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:

- 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:*

[&]quot;Calculation and Analysis of the Thermal and Kinetic Parameters for the Formation and Decomposition of Some Oxygenated Compounds as Surrogates for Fossil Fuel"

[&]quot;Fabrication and Characterization of Novel System of Nanocrystals Embedded in Borophosphate Glass Matrix "



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- 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, **1989**.
- B. Sc. Degree in: "Chemistry"

Chemistry Department, Faculty of Science, Menoufia University, Shebin El-Kom, Egypt1988.

5. TEACHING EXPERIENCE

The following courses were taught to undergraduate students:

- a- "Physical Chemistry", First Year Students, Chemical Engineering Department, Tanta Higher Institute of Engineering and Technology, Tanta, Egypt.
- b- "Thermodynamics", First Year Students, Chemical Engineering Department, Tanta Higher Institute of Engineering and Technology, Tanta, Egypt.
- c- "Engineering Chemistry", Zero Year Students, Chemical Engineering Department, Tanta Higher Institute of Engineering and Technology, Tanta, Egypt.
- d- "Water Treatment", Fourth Year Students, Chemical Engineering Department, Tanta Higher Institute of Engineering and Technology, Tanta, Egypt.
- e- "Air Pollution Control", Fourth Year Students, Chemical Engineering Department, Tanta Higher Institute of Engineering and Technology, Tanta, Egypt.
- f- "Industrial Safety and Risk Analysis", Fourth Year Students, Chemical Engineering Department, Tanta Higher Institute of Engineering and Technology, Tanta, Egypt.
- g- "Quality of Education", First- Fourth Year Students, Chemical Engineering Department, Tanta Higher Institute of Engineering and Technology, Tanta, Egypt.
- h- "Business Administration", Third Year Students, Chemical Engineering Department, Tanta Higher Institute of Engineering and Technology, Tanta, Egypt.
- i- "Environmental Engineering" Fourth Year Students, Chemical Engineering Department, Tanta Higher Institute of Engineering and Technology, Tanta, Egypt.

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8. PUBLICATIONS (last 5 years)

8. 1. Scientific Researches

- [1] S. Wageh, Ahmed M. El-Nahas, Anwer A. Higazy, <u>Mohamed A. M. Mahmoud</u>, Preparation and characterization of a novel system of CdS nanoparticles embedded in borophosphate glass matrix, J. 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 J. 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 J. 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, J. 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, J. Fuel, 290, 2021, 119970-119979.;
- [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, J. Structural Chemistry, 32(5)2021, 1857-1872.;
- [7] Mohamed A. M. Mahmoud, Ahmed M. El-Nahas, Biodiesel Combustion. Kinetics and Thermochemistry of H-atom Abstraction from Methyl Propionate by Ö^(3P) and O₂H Radicals: Ab Initio Study, *Journal of Molecular Structure*, 1243, **2021**, 130896-130907.;
- [8] Abdel-Rahman MA, El-Nahas AM, Simmie JM, Abdel-Azeim S, El-Demerdash SH, El-Meligy AB, Mohamed A. M. Mahmoud, A W1 Computational Study on the Kinetics of Initial Pyrolysis of Biodiesel Model: Methyl Propanoate, New J. Chem., 45 (41)2021, 19531-19541.;
- [9] El-Meligy, Asmaa; El-Demerdash, Safinaz; Abdel-Rahman, Mohamed; Mohamed A. M. Mahmoud, 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 7(16) 2022, 14222-14238.;
- [10] <u>Mohamed A. M. Mahmoud</u>, Mohamed F. Shibl, Ahmed M. El-Nahas, **Pyrolytic elimination of ethylene from ethoxyquinolines and ethoxyisoquinolines: A computational study** 2023, *Journal of Scientific Reports*, 2023, DOI: 10.1038/s41598-023-33272-2.;



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[11] Mohamed A. Abdel-Rahman, Mohamed F. Shibl, Abolfazl Shiroudi, Ahmed M. El- Nahas, Mohamed A. M. Mahmoud, Ab initio chemical kinetics of Isopropyl acetate oxidation with 'OH radicals 2023, J. Green Chemistry Letters and Reviews, under review.;

[12]

9. CONFERENCE (last 5 years)

- 1. 1st International conference of Water Treatment, Faculty of Science, Menoufia University, Egypt 2008.;
 - The scientific symposium of the Japanese-Egyptian Society for the development of Science
 "JSPS", Tanta Higher Institute of Engineering and Technology 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 December 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;



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13. The scientific symposium on "**Digital Transformation Future Prospects**" Cisco Academy, Tanta Higher Institute of Engineering and Technology at Tanta, Egypt, 13 March **2020**.;

14.

10. TRAINING AND WORKSHOPS

- 1. 7 Courses in International Computer Driving License "ICDL", UONISCO, Cairo, Egypt, 2011.
- 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.
- Course in English Language "TOEFEL", International Language Center, Cairo University-Egypt 2017.
- 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 2020.
- Entrepreneurship -Workshops, E-Youth for Consulting and Training, Cairo, Egypt, 10 February 2020.
- 10. 5 Courses in International Computer Driving License Teacher "ICDL Teacher", UONISCO, Cairo, Egypt, 16 February 2020.
- **11.** Tanta Higher Institute of Engineering and Technology at **Tanta**, **Egypt**, "Workshop -Teaching", under title **"Corse Specification"**, 12 November **2020**.

12.

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- 2023.
- 2. I worked as "Educational General Trainer" for teachers, at Professional Academy for Teachers "PAT", Cairo, Egypt, 2016-2023.
- 3. I worked as General instructor, educated at Cisco Academy/"THIET", Tanta Higher Institute of Engineering and Technology, Tanta, Egypt, 2020-2023.



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- 4. Very good background in computer programs as well as utilizing some standard software.
- 5. Participate in the preparation and presentation of a number of television programs: Science Simplification Program Educational Camera Program Educational Hadith Program Sabah Educational Program episodes revolve around computational chemistry and new and renewable energy drug chemistry water treatment and technology -....... Education technology e-learning and distance education -.... Misr Educational Channel 1, Egyptian TV Maspero 2020-2023.
- 6. Participate in preparing and presenting radio talks about educational technology e-learning and distance education Cairo Radio Public Program Radio Egypt, Moment by Moment 2020-2023.
- **7.** Participation in various committees and activities in the department:
- 8. Participation in the quarterly examination committees of the Chemical Engineering Department Tanta Higher Institute of Engineering and Technology "THIET", Tanta, Egypt.
- 9. Establishment and creation of the YouTube channel "Dr. Mohamed Ahmed Mohamed Mahmoud" educational https://www.youtube.com/channel/UCTRs_aDqhNkxqnz686d7uUQ To serve the students of the Institute Department of Chemical Engineering "THIET" and community service 2020-2023.
- 10. Participation in various committees and activities at Tanta Higher Institute of Engineering and Technology "THIET", Tanta, Egypt.
- 11. Participation in the work of the quarterly examinations at Tanta Higher Institute of Engineering and Technology "THIET" (Head of Control Level One), Tanta, Egypt.
- 12. Participation in the scientific symposium of the Japanese-Egyptian Society for the Advancement of Science "JSPS" Tanta Higher Institute of Engineering and Technology "THIET" October 13, 2018.
- 13. Participation in Quality Assurance works at Tanta Higher Institute of Engineering and Technology, "THIET", Tanta, Egypt, 2018-2023.
- **14.** Vice President of the **Quality Assurance Unit** at Tanta Higher Institute of Engineering and Technology "THIET", Tanta, Egypt. 2018-2023.
- 15. Participation in the establishment and establishment of the **Cisco Academy** branch for e-learning and distance training at Tanta Higher Institute of Engineering and Technology "**THIET**", **Tanta, Egypt** in March 2020.
- **16.** Supervision of training courses: **Cisco Academy** for e-learning and distance training at Tanta Higher Institute for Engineering and Technology **"THIET"**, **Tanta**, **Egypt.** in March 2020.

17.

طنطا – طريق القاهرة / الإسكندرية الزراعي الكيلو 112 أمام محطة قطار شبرا النملة ص.ب: 31739 - ت. أرضى: 0403103727