

C.V.

Dr. Mohamed Ibrahim Attia Metwally
Consultant of Quality and Assessment Deanship
Associate Professor of Inorganic Chemistry
Al Imam Mohammad Bin Saud Islamic
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Qualifications:

Jan., 2000 Ph.D. Inorganic Chemistry, Faculty of Science, University of Mansoura, Egypt. *Dissertation Title: Removal of some heavy metals from water.*

Dec., 1996 M.Sc. in Analytical Chemistry, Faculty of Science, University of Mansoura, Egypt. *Dissertation Title: Assessment of non-organic species as micronutrients in some fertilizers.*

May, 1990 B.Sc. in Science/Chemistry, Faculty of Science, University of Mansoura, Egypt.

Scientific Activities:

1- Publications at Journals:

1. A. T. Hassan, R.K. Hussein, Mortaga Abou-krissha and **Mohamed I Attia** "Density Functional Theory Investigation of Some Pyridine Dicarboxylic Acids Derivatives as Corrosion Inhibitors" Int. J. Electrochem. Sci., 15 (2020) 4274-4286
2. **Mohamed I Attia**, "Using Of Carbon Soot For Nickel (II) Removal By Adsorption; Kinetic Study." Research Journal of Pharmaceutical, Biological and Chemical Sciences, 10(2) (2019) 383-395.
3. Abdulrahman G Alhamzani, **Mohamed I Attia**, and Mohamed A Habib "Assessment Of Zinc (II) Removal From Aqueous Solutions Using Prepared Activated Carbon And Bentonite" Research Journal of Pharmaceutical, Biological and Chemical Sciences, 10(2) (2019) 278-290.
4. O. K. Al-Duaij, M. M. Abou-Krissha and **M. I. Attia** "Influence of the Deposition Temperature on the Electrodeposition Mechanism of Zn-Co-Fe Alloy" Int. J. Electrochem. Sci., 12 (2017) 11972-11986
5. M. A. HABIB, **M. I. ATTIA**, F. K. M. WALI "ADSORPTION CAPACITY OF CARBON SOOT FOR CHROMIUM (VI) AND COPPER (II) FROM THEIR SOLUTIONS INSTEAD OF PAC" Digest Journal of Nanomaterials and Biostructures, 12 (3) (2017) 841 - 846
6. Omar K. Alduaij, **Mohamed I. Attia**, Lotfi Khezami, Kamal K. Taha "REMOVAL OF COBALT(II) FROM AQUEOUS SOLUTION BY LOCAL SAUDI BENTONITE: KINETIC AND EQUILIBRIUM INVESTIGATIONS" Macedonian Journal of Chemistry and Chemical Engineering, 35 (1) (2016) 87–96
7. T.A. Yousef, G.M. Abu El-Reash, **M.I. Attia**, M.N. El-Tabai "Comparative ligational, optical band gap and biological studies on Cr(III)

and Fe(III) complexes of hydrazones derived from 2-hydrazinyl-2-oxo-N-phenylacetamide with both vanillin and O-vanillin” *Chemical Physics Letters* 636 (2015) 180–192

8. **Mohamed I. Attia** and Farouk K. M. Wali, “*Removal of Nickel(II) and Zinc(II) from their aqueous solution mixture using Carbon Soot as an economic adsorbing material*” *Wulfenia* 22(4) (2015) 442-464
9. Mortaga M. Abou-Krishna, **Mohamed I. Attia**, Fawzi H. Assaf and Ahmed A. Eissa, “*Influence of pH on the Composition, Morphology and Corrosion Resistance of Zn-Ni-Mn Alloy Films Synthesized by Electrodeposition*” *Int. J. Electrochem. Sci.*, 10 (2015) 2972-2987
10. **Mohamed I. Attia**, Omar K. Alduaij and Lotfi Khezami, “*Assessment of Nickel(II) Removal From Aqueous Solution Using Saudi Bentonite*” *SYLWAN*, 159(1) (2015) 146-166.
11. **Mohamed I. Attia**, “*Assesment of using Bentonite as an economic adsorbing material for cobalt(II) removal from aqueous Solution*” *SYLWAN*, 159(1) (2015) 61-79.
12. **Mohamed I. Attia** and Mohamed. A. Habib, “*Recycling of leather green fleshing using local activated Saudi bentonite*” *SYLWAN*, 159(1) (2015) 201-214.
13. **Mohamed I. Attia**, “*Assessment of using Carbon Soot as economic adsorbing material for the removal of cobalt(II) from aqueous solution*”, *Main Group Chemistry* 13 (2014) 353–362.
14. Ahmed M.A. El-Seidy, **Mohamed I. Attia**, “*In Situ Synthesis and Characterisation of 2-((2-(2,4-dinitrophenyl) hydrazono) methyl) phenol metal complexes and their Investigation as Antibacterial and Antifungal Agents*” *Journal of Applied Sciences Research*, 9(4): 2901-2908, 2013 ISSN 1819-544X”

2- Publications at Conferences:

- 1- Participating in the Fifth Saudi Science Conference (New Vision for the Role of Basic Science in Development), by research “*Assessment of Zinc (II) removal from aqueous solution by adsorption onto selected adsorbent*”, **Mohamed I. Attia**, Ashraf A. El-Bindary, Ahmed A. El-Sarawy, Adel Z. El-Sonbati and Ibrahim Gar Al-Alm Rashed, Umm Al Qura University, Mecca, KSA 16-18 April 2012.
- 2- Participating in the Fourth International Chemistry Conference (Chemistry and its application in Development), by research “*Assessment of Using Bentonite in the Removal of Chromium (VI) by Adsorption*” **Mohamed I. Attia**, Ashraf A. El-Bindary, Ahmed A. El-Sarawy, Adel Z. El-Sonbati and Ibrahim Gar Al-Alm Rashed. King Saud University and Saudi Chemical Society, Riyadh, KSA 19-21 November 2011.
- 3- Participating in the First United Arab Emirates on Pure and Applied Chemistry (ECPAC) , by research “*Adsorption of Cobalt(II) from Aqueous Solution on Selected Adsorbents*” **Mohamed I. Attia**, Mohammed M. Babatin, and Sami A. Al-Hussain, 2 1-3 March 2011.
- 4- Participating in 7th Ibn Sina International Scientific Conference by research “*Comparative thermodynamic study for copper (II) removal by adsorption onto different adsorbents*” Ashraf A. El-Bindary, Ahmed A. El-Sarawy, **Mohamed I. Attia**, Adel Z. El-Sonbati, and Ibrahim Gar Al-Alm Rashed, Alexandria University, Alexandria, Egypt 25-28 March 2000
- 5- Participating in 3rd international Scientific Conference, Al-Azhar University by research “*Comparative thermodynamic study for Nickel(II) removal by adsorption onto different adsorbents*” Ahmed A. El-Sarawy, **Mohamed I. Attia**, Ashraf A. El-Bindary, Adel Z. El-Sonbati, and Ibrahim Gar Al-Alm Rashed, Al-Azhar University Cairo, Egypt, 22-25 March 1999.

3- Conferences Attendance:

- 1- Participating in 3rd Saudi International Petrochemical Technology Conference, King Abdullah City for Science and Technology (KACST), Riyadh, KSA 5-6 May 2015
- 2- Participating in The First Saudi International Conference on Crises and Disaster Management, Al-Imam Mohammad Bin Saud Islamic University, Riyadh, KSA 8-9 September 2013
- 3- Participating in 2nd Saudi International Petrochemical Technology Conference, King Abdullah City for Science and Technology (KACST), Riyadh, KSA 13-14 May 2013.
- 4- Participating in Symposium of Psychology and fortify the Young People in the Age of Globalization, Al-Imam Mohammad Bin Saud Islamic University, Riyadh, KSA 13-14 February 2013
- 5- Participating in International Forum of Innovators in University Teaching (IFIUT), Al-Imam Mohammad Bin Saud Islamic University, Riyadh, KSA 3-5 February 2013.
- 6- Participating in Saudi International Nanotechnology Conference, King Abdullah City for Science and Technology (KACST), Riyadh, KSA 11-13 November 2012.
- 7- Participating in Saudi International Water Technology Conference, King Abdullah City for Science and Technology (KACST), Riyadh, KSA 21-22 November 2011.
- 8- Participating in “*Learning and Teaching in university stage*” workshop, Al-Imam Muhammad Bin Saud Islamic University, Riyadh, Saudi Arabia during the period 23 May, 2011.
- 9- Participating in the Mathematics and Its Applications Conference, College of Science. Al-Imam Muhammad Bin Saud Islamic University, Riyadh, Saudi Arabia during the period March 23-24, 2011.

10- Participating in Saudi International Nanotechnology Conference, King Abdullah City for Science and Technology (KACST), Riyadh, 29-30 November 2010.

4- Finished Scientific Projects:

- 1- Participating as Co-Principle Investigator in the project of (Chemical Treatment of Saudi Palm Tree Agriculture Wastes as Low Cost Adsorbent for Heavy Metals Removal from Industrial Waste Water: Economic and Environmental View), Al-Imam Mohammad Bin Saud Islamic University (2015-2017).
- 2- Participating as Co-Principle Investigator in the project of (Increasing the corrosion resistance of steel by electrodepositing of Nano- alloys particles), Al-Imam Mohammad Bin Saud Islamic University (2013-2015).
- 3- Participating as Co-Principle Investigator in the project of (Assessment of using local economical materials in water treatment polluted by heavy metals), Al-Imam Mohammad Bin Saud Islamic University (2012-2014).
- 4- Participating as Co-Principle Investigator in the project of (General Chemistry 2) Book for College of Science' Students, Al-Imam Mohamed Bin Saud University (2011-2012).
- 5- Participating in the project of production of slow release fertilizers and improve anti-caking properties of some fertilizers (2004-2007)
- 6- Production of some new compound fertilizers (N-P-K) -solid and liquid- and chelated fertilizers (1996-2000).

6- Refereeing promotions:

Refereeing promotions for assistant and associate professors for Al-Taif University and Al-Imam Mohammad Ibn Saud Islamic University:

- Refereeing promotion of Doctor Mohamed Maamon Khalid Lotfi AlMagzoub for the degree of associate professor in Soectroanalysis of chemical compounds, Al Taif University 25/3/2017.
- Refereeing promotion of Doctor Ahmed Mohamed Aly Falatah for the degree of associate professor in Spectrochemistry and Material Science, Al Taif University 26/11/2020.
- Refereeing promotion of Doctor Amin Rashid Rezky Mazny for the degree of associate professor in Soectroanalysis of chemical compounds, Al Taif University 9/3/2021.

7- Researches Reviewer

- 1- Environmental Science and Pollution Research: *Optimization of struvite fertilizer formation from Baker's yeast wastewater: growth and nutrition of maize and tomato plants.*
- 2- Arabian Journal of Chemistry: *Factors influencing the removal of insecticide from aqueous solutions using natural clays.*
- 3- Environmental Science and Pollution Research: *Effects of natural organic matter on the microporous sorption sites of black carbon in a Yangtze River sediment.*
- 4- Environmental Science and Pollution Research: *Optimization of struvite fertilizer formation from Baker's yeast wastewater: growth and nutrition of maize and tomato plants.*

5- King Abdullah City for Science and Technology (KACST), Riyadh, KSA.

7- Research Interests

- Applied inorganic compounds.
- Environmental (soil and water) pollution treatment, prevention and monitoring.
- Improving fertilizers' quality and properties.
- Producing new compound and chelated fertilizers in economic prices.

8- Training Activity:

- Attendance of "Role of vice dean and head of departments in University development)" Training Program at Dean of University Teaching Development, Al-Imam Mohammad Bin Saud Islamic University. Riyadh, KSA 29/4 /2015
- Attendance of "University Teaching and Learning (UTL)" Training Program at Dean of University Teaching Development, Al-Imam Mohammad Bin Saud Islamic University. Riyadh, KSA 27/4-1/5 /2013
- Attendance of "Electronic learning and its tools" Training Workshop at Dean of University Teaching Development, Al-Imam Mohammad Bin Saud Islamic University. Riyadh, KSA 29/4/2012
- Attendance of "Electronic learning and its tools" program at National Center for E-Learning and Distance Learning. Riyadh, KSA 14-15/11/2009.
- Attendance of "Electronic Exams Building" program at National Center for E-Learning and Distance Learning. Riyadh, KSA 7-8/11/2009.
- Attendance of "The Integrated Program for Trainers Training" at Prince Naif Institute for Research and Consulting Services, Al-Imam Muhammad Bin Saud University, KSA 31-10 to 4-11/2009.

- Attendance of “The Integration of Thinking Mechanism in Curriculum and Course Design” program at Prince Naif Institute for Research and Consulting Services, Al-Imam Muhammad Bin Saud University, KSA 24-27/10/2009.
- Participating as trainer in the “Compound Fertilizer Manufacture Technology Program” 18-22 April 1998.

9- Administration Activity:

- Vice of Chemistry Head Department since 1-10-2011 to 1-11-2015.
- Member of chemistry department council since 1-10-2010 to 1/9/2019.
- Member of chemistry department syllabus committee for industrial path.
- Member of chemistry department syllabus committee for environmental path.
- Member of chemistry department syllabus committee for educational path.
- Member of chemistry course description committee.
- Member of students’ excuses committee since 1-1-2010 and up to date.
- Member in teaching processing following committee since 1-1-2011 till 1-11-2011.
- Academic supervisor for 27 students since 1-10-2009 till 1-10 – 2011.
- Member of physics department council since 1-10-2009 till 1-10 - 2010.

10- Employment History:

1/9/2019 and up to date Consultant of Quality and Assessment Deanship at Al-Imam Muhammad Bin Saud University, KSA

8/11/2015 – 1/9/2019 Associate Professor of Inorganic chemistry at Al-Imam Muhammad Bin Saud University, KSA

21/9/2009 – 8-11-2015 Assistant Professor of Inorganic chemistry at Al-Imam Muhammad Bin Saud University, KSA

27/1/2009 – 20/9/2009 Co-Operate assistant professor of inorganic chemistry at Al-Imam Muhammad Bin Saud University, KSA

1/5/2005– 26/1//2009 Chemist in Quality Control Management, The Egyptian Fertilizer Development Center- El-Delta Co. for Fertilizers and Chemical Industries

30/7/1994–30/4/2005 Chemist in Nitrogen Fertilizer Research Management, The Egyptian Fertilizer Development Center- El-Delta Co. for Fertilizers and Chemical Industries.

11/1/1993–29/7/1994 Research Fellowship, the Academy of Technology and Scientific Research- El-Delta Co. for Fertilizers and Chemical Industries.

11- Teaching Experiences:

- Teaching chemistry courses at College of Science, Imam Mohammad Bin Saud Islamic University.
- Teaching chemistry courses at different Special Universities in Egypt and training courses to students of Faculty of Science, Mansoura University.

Taught Courses:

- Teaching of General Chemistry 1 (CHM 101), General Chemistry 2 (CHM 102), General Chemistry for Engineering (CHM 103), Bio Chemistry 1 (BIOC 010), Inorganic Chemistry 1 (CHM 211), Inorganic Chemistry 2 (CHM 212), Inorganic Industrial 1 (CHM 414-Selected Course 2), Nuclear Chemistry (CHM 415) and supervisor for graduated students' projects (CHM 461) for students of College of Science, Al-Imam Muhammad Bin Saud University.
- Teaching Laboratory courses (CHM 101), (CHM 102), (CHM 103), (CHM 211) and (CHM 414)
- Teaching of Mathematics for preparatory year students at College of Science (Math 011, Math 015 and Math 050)

12- Experimental Experiences:

- Laboratory experience includes quality control analysis using modern analytical instruments:
 - Atomic Absorption Spectrophotometer.
 - Spectronic Photometer.
 - Flame photometer.
 - Karl Fisher titrator, turbidimeter, ion-selective electrode, pH meter.
- Supervises a team of Chemists, Specialists and Technicians working in the area of assignment, which consists of two lab sections. Undertakes the supervision and control of the day-to-day testing and analysis of both routine and non-routine samples, and offers advice and guidance to subordinates. Manages priorities and ensures the validity of test results. Provides an onsite quality and environmental control service. Ensures and verifies analytical results and guarantees the quality and accuracy of the analysis of the final products. Develops new or innovative analytical techniques as required.

13- Additional Experiences:

- Aug., 2002 IELTS from, CELE Center, Nottingham University, UK.
- Computer experience including utilizing applications: Windows, Word, and Excel among others and good experience in research skills through Internet