

## CV:

### **Personal Information:**

Name: Amal Mohammed Al-Mohaimeed

Chemistry Department, (Analytical Chemistry)

College of Science, King Saud University

Nationality: Saudi

Languages: Arabic and English

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### **Employment History:**

- Associate professor, Department of Chemistry, King Saud University, Riyadh, Saudi Arabia (since May. 2021-till now).
- Assistant professor, Department of Chemistry, King Saud University, Riyadh, Saudi Arabia (since 2016-2021).
- Lecturer, Department of Chemistry, King Saud University, Riyadh, Saudi Arabia (2008 -2016)
- Teaching assistant, Department of Chemistry, King Saud University, Riyadh, Saudi Arabia (2002-2008)

### **Scientific Degrees:**

1. Doctor of Philosophy, Department of Chemistry, King Saud University, Riyadh, Saudi Arabia (2015). Analytical chemistry. Title of PhD dissertation: **Analysis of the Antibiotic Cefditoren pivoxil and Gemifloxacin mesylate by electroanalytical and luminescence Techniques.**
2. Master's degree: Department: Chemistry. University: King Saud University, Riyadh, Saudi Arabia (2002). Title of Master thesis: **Multi-Element Determination of Toxic Metals in Various Canned Fruits Juices by ICP-MS**
3. Bachelor of Science degree: Department: Chemistry. University: King Saud University (1997)

### **Administrative Position**

- Coordinator of service courses at College of Science (2018-2020)
- Supervisor of the Deanship of Skills Development at College of Science from (2015-2019)

### **Committees:**

- Member of Community Service Unit at Science College from (2017-2020)
- Member of Academic Advising Unit Science College from (2017 till now)
- Member of Public Relations and Community Partnership at Chemistry Department (2017-2019)
- Member of Training Unit and Community Service at College of Science (2017-2019)

### **Organizations & Societies membership:**

- Member of Saudi Chemical Society
- Member of National center for Assessment in higher education (**Qiyas**)
- Member and Chemistry and Science trainer at King Abdul-Aziz & his Companions Foundation For Giftedness & Creativity ( **Mawhibah**)

### **Activities:**

- Supervision and discussion of Master theses in the Department of Chemistry.
- Supervisor of high school examination committees, achievement and aptitude tests
- Doing a workshop of ICP-OES technique and training on the instrumental
- Collaborator with Al-Imam Mohammed bin Saud University to supervise undergraduate research and teach analytical Chemistry Courses
- Supervisor of Rapid Response Program (Clickers) at College of Science
- Proficient operator of Analytical instruments such as (HPLC, ICP-OES, Voltammetry and Polarography)
- Having of Certificate of Excellence for graduate students in the Department of Chemistry
- Participating in organization of the workshop Writing a critical review of a scientific article, by Saudi Chemical Society, (2019).
- Participating in organization of Chemical Society Activities, by Saudi Chemical Society, (2019).
- Participating in organization of GRE Exam, by Saudi Chemical Society, (2019).
- Participating in organization of the workshop on Electrochemistry, by Saudi Chemical Society, (2018).

### **Symposia and Courses**

- Attendance workshop offered by the Deanship of Skills Development, Helping Students to Think Critically (2020)

- Attendance workshop offered by the Deanship of Skills Development, Scientific publishing in international journals (2019)
- Attendance workshop offered by the Deanship of Skills Development, Using Technology in College Teaching (Blackboard) (2019)
- Attendance workshop offered by Saudi Chemical Society, Writing a critical review of a scientific article, (2019).
- Attendance workshop offered by the Deanship of Skills Development, Social responsibility (2017)
- Attendance workshop offered by the Deanship of Skills Development, Successful Experiences in Blackboard Usage, (2016)
- Attendance workshop offered by the Deanship of Skills Development, Effective Meetings Management, (2016)
- Attendance workshop offered by the Deanship of Skills Development, Micro Teaching, (2016).
- Attendance workshop offered by the Deanship of Skills Development, 21 st century Employability skills and university teaching, (2016).
- Attendance workshop offered by the Deanship of Skills Development, Skills of Academic Advising, (2016).
- Attendance workshop offered by the Deanship of Skills Development, Continuous improvement system Course (**Kaizen**), (2016).
- Attendance workshop offered by the Deanship of Skills Development, First Aid and Safety, (2016).
- Attending workshop offered by the Deanship of Skills Development, Designing and Building the Course, (2016).
- Attendance workshop offered by the Deanship of Skills Development, Evaluation of Learning Outcomes (2016).

### **Publications**

- 1- **Amal M. Al-Mohaimed**, Salma A. Al-Tamimi, Nawal A. Alarfaj, Fatma A. Aly, New Coated Wire Sensors for Potentiometric Determination of Gemifloxacin in Pure Form, Pharmaceutical Formulations and Biological Fluids, Int. J. Electrochem. Sci.,7 (2012) 12518 – 12530.
- 2- Salma A. Al-Tamimi, **Amal M. Al-Mohaimed**, Nawal A. Alarfaj, Fatma A. Aly, Ion Selective Electrodes for Determination of Cefditoren Pivoxil in Pharmaceutical Formulations and Biological Fluids, Int. J. Electrochem. Sci., 8(2013) 3988 – 4001.
- 3- Salma A. Al-Tamimi, Nawal A. Alarfaj, Fatma A. Aly, **Amal M. Al-Mohaimed**, Spectrofluorimetric analysis of gemifloxacin mesylate in pharmaceutical formulations, Luminescence, 29 (2013) 127-131.
- 4- Salma A. Al-Tamimi, Amal M. Al-Mohaimed, Nawal A. Alarfaj, Fatma A. Aly, Stability- indicating spectrofluorimetric method for determination of gemifloxacin mesylate in pharmaceutical dosage forms, J. Indian Chem. Soc., 91(2014)1247-1254.

- 5- Eida S. Al- Farraj, Zainab M. Almarhoon, Asma, A Aothman, **Amal M Al-Mohaimed** and Wedad A. Al-onazi, Synthesis, spectroscopic characterization and biological studies of nano-sized Co(II), Ni(II), and Zn(II) Schiff base hybrids, Journal of molecular structure.5(2019) 17-31
- 6- **Amal M. Al-Mohaimed**, Formation Constants of Mixed Ligand Complexes of Anti-Inflammatory Drug Piroxicam and Some Bioligands with Copper(II), Asain Journal of Chemistry, 31 (2019), 2937-2940
- 7- Asma A. Alothman, , Eida S. Al-Farraj , Wedad A. Al-Onazi , Zainab M. Almarhoon , **Amal M. Al-Mohaimed**, Spectral characterization, electrochemical, antimicrobial and cytotoxic studies on new metal (II) complexes containing N<sub>2</sub>O<sub>4</sub> donor hexadentate Schiff base ligand , Arabian Journal of Chemistry, 13(2020), 3889-3902
- 8- Imran Alia,, Mohd. Suhail, Zeid A. ALOthman , **Amal M. Al-Mohaimed**, Abdulrahman Alwarthan, Chiral resolution of four stereomers and simulation studies of newly synthesized antibacterial agents having two chiral centers, Separation and Purification Technology, 236 (2020) 116256
- 9- Wedad A. Al-onazi, Amal M Al-Mohaimed, Zainab M. Almarhoon, Eida S. Al- Farraj and , Asma, A Aothman, Potentiometric, spectral characterization, and antioxidant activity studies of ternary complexes involving Cu(II) and carbamoylcholine chloride drug with amino acids, Journal of the Chinese Chemical Society, , published online, 2019
- 10- **Amal M. Al-Mohaimed** and Asma A. Alothman, Characterization by potentiometric procedures of the stability constants of the binary and ternary complexes of Cu(II) and duloxetine drug with Amino acids, Journal of chemistry,online, 22 April 2019
- 11- Zainab M. Almarhoon, Wedad A. Al-onazi, Asma, A Aothman, **Amal M Al-Mohaimed** and Eida S. Al- Farraj, Synthesis, DNA binding and molecular Docking studies of dimethylaminobenzaldehyde-based bioactive Schiff base, Journal of chemistry,2019
- 12- Imran Ali, Omar M. L. Alharbi, Zeid A. ALOthman, **Amal M. ALMohaimed** and Abdulrahman Alwarthan, Modeling of fenuron pesticide adsorption on CNTs for mechanistic insight and removal in water, Enviromental Research, 170(2019)389-397
- 13- Imran Ali , Omar M.L. Alharbi , Zeid A. ALOthman , Abdulrahman Alwarthan , **Amal M. Al-Mohaimed.**, Preparation of a carboxymethylcellulose-iron composite for uptake of atorvastatin in water,International journal of biological macromolecules, 132(2019)244-253
- 14- **Amal M. Al-Mohaimed**, Nawal A. Alarfaj, Maha F. El-Tohamy, Hajar Al-Harbi, Prospective of Ultrasensitive Nanometal Oxides Electrochemical Sensors for Pharmaceutical Analysis of Antihistamine Drug Fexofenadine HydrochlorideInt. International Journal of Electrochemical Science, 15 (2020) 4774 – 4788
- 15- **Amal M. Al-Mohaimed**, Eida S. Al-Farraj, Wedad A. Al-Onazi, Asma A. Alothman, Zainab M. Almarhoon, Synthesis, characterization, density functional theory, thermal, antimicrobial efficacy, and DNA binding/cleavage studies of Cu(II), Cr(III), Fe(III), Ni(II), Co(II), Zn(II), and Pt(IV) complexes with a derivative of 2-hydroxyphenoxymethylfuran-5-carbaldehyde, Journal of The Chinese Chemical Society, published online 10 July 2020

- 16- Muthumariappan Akilarasan , Selvarasu Maheshwaran, Tse-Wei Chen , Shen-Ming Chen, Elayappan Tamilalagan , M. Ajmal Ali , Wedad A. Al-onazi , **Amal M. Al-Mohaimed**, Using cerium (III) orthovanadate as an efficient catalyst for the electrochemical sensing of anti-prostate cancer drug (flutamide) in biological fluids, *Microchemical Journal*, 159(2020), 105509
- 17- Jansi Rani, G. Ravi, R. Yuvakkumar, Dhayalan Velauthapillai, B. Saravanakumar, **Amal M. Al-Mohaimed**, Investigation on copper based oxide, sulfide and selenide derivatives oxygen evolution reaction activity, *Applied Nanoscience*, published online 9 August 2020.
- 18- Henry U. Nwankwo, Ekemini D. Akpanb , Lukman O. Olasunkanmi , Chandrabhan Verma, **Amal M. Al-Mohaimed** , Dunia A. Al Farraj, Eno E. Ebenso, N-substituted carbazoles as corrosion inhibitors in microbiologically influenced and acidic corrosion of mild steel: Gravimetric, electrochemical, surface and computational studies, *Journal of Molecular Structure*, published online 23 September 2020.
- 19- Wajeeh Ur Rehman, Adeel Ahmad Hassan, Jawad Ahmed, Tahir Rasheed, Salah Ud-Din Khan, **Amal M. Al-Mohaimed**, Thermoplastic polyurethane conjugated antimony doped tin oxide nanocomposite for enhanced electrical and thermal conductivity, *Synthetic Metals*, 269(2020), 116570
- 20- Salma Ali Al-Tamimi, **Amal M. Al-Mohaimed**, Nawal Ahmad Alarfaj and Fatma AhmedAly, Ultrasensitive Electrochemical Approach for Gemifloxacin Mesylate Monitoring and Quantification by Different Voltammetric Methods, *Int. J. Electrochem. Sci.*, 15 (2020) 1930 – 1941, doi: 10.20964/2020.03.51
- 21- Salma A. Al-Tamimi , **Amal M. Al-Mohaimed**, Nawal A. Alarfaj, Fatma A. Aly, Electrochemical Determination of Gemifloxacin Mesylate in Commercial Tablets and Biological Fluids By Differential Pulse Polarography, *Int. J. Electrochem. Sci.*, 15 (2020) 8386 – 8396, doi: 10.20964/2020.09.19
- 22- Determination of heavy metals in various Rock samples in Riyadh, Saudi Arabia by inductively coupled plasma spectrometry (ICP-MS), **Amal M. Al-Mohaimed**, Najla S. Alhumud , Sarah A. Bhamid and Waad F. Filfilan, *World Journal of Pharmaceutical*, Volume 9, Issue 2, 110-116., DOI: 10.20959/wjpr20202-16625