

Isam Hussain T. AL-Karkhi

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Career Objective

- Assistant Professor in Chemistry with diverse knowledge of conducting research and teaching chemistry.
- Lab Researcher, inorganic chemistry, applied chemistry, industrial chemistry, organic chemistry, synthesis, characterization of new chemical compounds.
- Seeking for a position as Chemistry Professor to utilize my skills and proficiency in a well-established educational organization.

Highlights of Qualifications

- Wide experience in teaching Chemistry courses to undergraduates.
- More than 15 years diverse teaching experience.
- Ability to teach student groups from diverse backgrounds.
- Ability to enforce student discipline policies in classrooms.
- Supervisory and training experience in chemical and industrial laboratories.
- Ability to ensure student safety in laboratory
- Profound knowledge of chemical structure, property and composition of substances
- Extensive curriculum development experience.
- Familiarity with instructional methodologies.
- Exceptional knowledge of laboratory techniques.
- Conducted chemical researches and documented findings.
- Maintained daily lesson plans.
- Drafted examination papers and conducted and graded student exams.
- Provided homework and assignment for students.
- Facilitated class discussions to provide quality learning experiences.
- Maintained student attendance and progress records.
- Ensured that students followed college rules.
- Conducted chemical experiments in laboratory.
- Supervisor on more than 12 Graduations projects in different subjects in chemistry.
- More than 10 years as a consultant to evaluate offers for supplying chemical equipment and materials to the companies and factories.
- Collaboration between producers, suppliers and consumer.
- Arranging & Attending meetings with consumers and customer,
- Ability to explain the specification and plans as well.
- Prepare training workshops.
- Visiting the location of the factories, discussed their demands and lead negotiation to reach best agreements.
- Introducing advices and comments to the customers and explain how to increase the productivity, how to minimize waste in chemical industries.

- Coordinate with the factories planning department on how to calculate the data, how to write reports and evaluate their work.
- Fully bilingual (English& Arabic), and has advanced knowledge in MS office.
- Supervisory and training experience in chemical laboratories.

Professional strengths

- Possess ten years of teaching experience in the mentioned field
- Possess excellent command over spoken and written English
- In-depth knowledge of the concepts, theories and experimentation techniques of Chemistry
- Possess excellent teaching and time management skills
- Familiar with various experiments in the laboratory
- Possess excellent organizational and managerial skills
- Ability to generate ideas in a clear and concise way
- Goal-oriented, good-motivator and ability to use different teaching methods and techniques

EMPLOYMENT HISTORY

Assistant Professor, College of Dentistry University of Baghdad 2011-2017

- Handled the tasks of conducting regular lectures and chemical experiments in the classroom as well as in laboratories.
- Responsible for teaching upper-division physical chemistry and freshman general chemistry.
- Handled the tasks of monitoring and supervising undergraduate.
- Conducted research with undergraduates on industrial chemistry, organic chemistry biochemistry and historical chemistry.
- Handled the tasks of delivering scheduled lectures and analyzing test results.
- Taught general and inorganic chemistry at university level.
- Supervisor for general and inorganic chemistry lab and experiments.
- Research team leader, writing and publishing research papers.
- Collaboration with others in research and preparing research articles.
- Participated in evaluate education process and share the decisions taken by the Department.

Ph.D Researcher UPM, Malaysia 2007-2011

- Synthesized novel organometallic complexes.
- Characterized them using different physico-chemical techniques like IR, UV-Vis, Mass Spectroscopy, Magnetic Susceptibility, Molar conductivity.
- Evaluated their bioactivity and cytotoxicity.
- Worked as Lab assistant (demonstrator) in Chemistry Department explained the inorganic experiments to undergraduate students, collected, corrected and evaluated their reports and activities and gave the final experimental lab marks

Lecturer, College of Dentistry, University of Baghdad

2006-2007

- Responsible for teaching and explaining the experiments of general and inorganic chemistry lab to the students.
- Collected students reports and evaluated their activity and give the final marks.
- Rewrites all the experiments procedures as a reference to the students.
- Attends all department meetings, participated in enhance the education process.
- Taught inorganic, general and transition metal chemistry.
- Taught chemistry research methodology.
- Supervisor on more than 12 undergraduate projects.

Head of chemistry department SepAI-Margib University, Libya

2004-2005

- Head of chemistry department in the college of qualifying teachers.
- Contribute in a several activities that support the scientific process in the university.
- Collaborate with college of science to teach inorganic chemistry (coordination chemistry).
- Invited to evaluate a lot of graduation thesis projects and be a member in their examination community in both college of science and college of qualifying teachers.
- Visited and advised the students to evaluate their teaching, give comments, discuss with them how to develop their activities and minimize the problems they faced.
- Taught inorganic, general and transition metal chemistry.
- Taught chemistry research methodology.
- Supervisor on more than 12 undergraduate projects.

Lecturer Al-Margib University, Libya

2001-2005

The main duty was teaching general chemistry to first stage, inorganic chemistry to second, third and fourth stage. Also teach methodology on teaching chemistry and supervisor on more than 12 undergraduate graduation projects. Also I appointed as a head of chemistry department in the college of qualifying teachers in the same university, during this period I contribute in a lot of activities that support the scientific process in the university. I also collaborate with college of science in the same university to teach inorganic chemistry (coordination chemistry) to fourth stage and to be supervisor of some undergraduate graduation projects. In addition to the above duties I was also invited to evaluate a lot of graduation project and be a member in their examination community in both college of science and college of qualifying teachers. Other duties was to visit the students to the schools during their practical part and to evaluate their teaching, give comments, discuss with them how to develop their activities and minimize the problems they faced.

Consultant, Lebanon Company for general trading, Baghdad-Iraq

1998-2001

- Evaluated offers for supplying chemical equipment and materials to the companies.
- Collaboration between producers, suppliers and consumers.
- Attended meetings, arranging workshops with consumers.
- Visited factories, discussed their demands, and lead negotiations to reach optimal results to increase production and minimized waste..

- Advised chemical factories on how to increase productivity and minimize waste.
- Coordinated with the planning department on how to calculate production data, reports and evaluation.

EDUCATION

- Ph.D. in Chemistry from University Putra Malaysia (UPM/Malaysia).
- M.Sc. in general chemistry from University of Al Nahrayn
- B.Sc. in industrial chemistry from University of Baghdad
- All the degrees above were accredited by the International Credential Assessment Service of Canada (ICAS) (File No. 13031432) on July 13, 2013

MEMBERSHIP

- Member of Asia-Pacific Chemical, Biological & Environmental Engineering Society.
- Member in reviewing committee for the Arabian Journal of Chemistry. Saudi Arabia
- Member in reviewing committee for the Journal of Ethiopia Chemical Society.
- Member in reviewing committee for the Orbital Journal of Chemistry, Brazil.

CONFERENCES

- Simposium Kimia Analisis Malaysia Ke-21. (SKAM-21). November 25-27, 2008.
- Fundamental Science Congress 17 & 18 June 2009 (UPM). (FSC 2009)
- Fundamental Science Congress 18-19 May 2010 (UPM). (FSC 2010)
- Regional Fundamental Science Symposium 8-9 June 2010 (UTM). (RAFSS 2010).
- International Conference On Postgraduate Education. ICPE-4 2010.
- ICBEC 2011, UAE December 28-30, 2011.
- Participation in the Educational qualifying course held by University of Baghdad from 11/9/2011 to 13/10/2011.
- Participation in scientific promotion course held in University of Baghdad, Computer center, Consultative Bureau (9/10/2011 to 13/10/1011).
- Participation in 3ed Scientific Conference on Nanotechnology and its Applications, 28 to 29/12/2011. University of Baghdad, Baghdad, Iraq.
- First Biology Conference, Biology Dep. College of Science, University of Baghdad 2012.
- First Biology Conference, Biology Dep. College of Science, University of Thi-Qar 2012.
- Medical City & College of Medicine – Baghdad Joint Conference Nov. 28-29/2012.
- First Chemistry Conference, College of Science for Banat, University of Baghdad, 2012.
- International Scientific Conference for Iraqi Medical Competencies, 11 to 12 Dec., 2013. Medical City, Baghdad, Iraq
- Participated in 2nd International Conference of Chemistry 22 to 23 March 2014, organized by department of chemistry, college of science, university of Basrah, Iraq.
- Participated at the First Scientific Meeting of Dentistry, held on 2 to 3 April, 2014 in Duhok Polytechnic University, Iraq

My participation in all the conferences was as a speaker with research work

PUBLICATIONS

More than 20 scientific research papers were published in different international journals, among of them are:

- 1- Abdullah, A.A., E.A.J. Al-Mulla, I.H.T. Al-Karkhi and S.A. Aowda, 2013. Electrochemical Studies of Copper Fatty Amides Complex in Organic Medium. *Res. Chem. Intermed.*, 39: 2817-2823. [CrossRef](#) | [Direct Link](#) |
- 2- Al-Hassan, A.A., B.H. Al-Ghurabi and I.H. Al-Karkhi, 2012. Prognostic Value of Proinflammatory Cytokines in Breast Cancer. *J. Biomol. Res. Ther.*, 1: 1-3. [CrossRef](#) | [Direct Link](#) |
- 3- Al-Kaissy, A.Z. and I.H.T. Al-Karkhi, 2013. Low Level Laser Effect on the Action of Lymph Nodule and Cervical in Inoculated Mice with Carcinoma in Memory Gland. *Orient. J. Chem.*, 29: 1233-1236. [CrossRef](#) |
- 4- Al-Karkhi, I.H., H.T. Sadiq and A.H. Jassim, 2013. Synthesis and Spectroscopic Characterization of New Ligand and Its Pd(II), Cu(II) Metal Complexes. *Orbital Electron. J. Chem.*, 5: 84-87. [Direct Link](#) |
- 5- Al-Karkhi, I.H.T., 2014. Physico-Chemical and In-vitro Microbial Studies of Newly Synthesis Organometallic Complexes. *Orbital Electron. J. Chem.*, 6: 1-6. [Direct Link](#) |
- 6- Al-Karkhi, I.H.T., A.E. Ibrahim and A.K. Yaseen, 2013. Levels of Insulin, IL-6 and CRP in Patients with Unstable Angina. *Adv. Clin. Exp. Med.*, 22: 655-658. [Direct Link](#) |
- 7- Al-Karkhi, I.H.T., A.I. Ibrahim, H.T. Al-Marsome and A.K. Yaseen, 2013. Cultivation of *Cryptosporidium* in host free cells culture using Iraqi isolate. *Biosci. Res.*, 10: 8-11. [Direct Link](#) |
- 8- Al-Karkhi, I.H.T., A.K. Yaseen and H.T. Sadeq, 2013. Synthesis and Characterization of Novel Methyl 2-(1,7,7-Trimethylbicyclo[2.2.1] hept-2-ylidene)hydrazinecarbodithioate Schiff Bases Derived From Methyl hydrazine carbodithioate And Their Bi(III) And Ag(II) Complexes. *J. Baghdad Sci.*, 10: 607-617. [Direct Link](#) |
- 9- Al-Mulla, E.A.J., N.A.B. Ibrahim, I.H.T. Al-Karkhi, K. Shameli and M. Zidan *et al.*, 2013. Synthesis of palm oil-based fatty methylhydrazide. *Res. Chem. Intermed.*, 39: 2133-2139. [CrossRef](#) | [Direct Link](#) |
- 10- Yaseen, A.K. and I.H.T. Al-Karkhi, 2013. Preparation, Characterization and Spectroscopic Study of New Tridentate Schiff Base and its Cu(II), Ni(II) and Zn(II) Metal Complexes. *J. Baghdad Sci.*, 10: 198-206. [Direct Link](#) |
- 11- Gathwan, K.H., I.H.T. Al-Karkhi and A.K. Yaseen, 2013. Organophosphorus insecticides induced alterations in liver of male albino rat. *Chem. Sci. Trans.*, 2: S95-S98. [Direct Link](#) |
- 12- Gathwan, K.H., H.T. Al-Karkhi and E.A.J. Al-Mulla, 2013. Hepatic Toxicity of Nickel Chloride in Mice. *Res. Chem. Intermed.*, 39: 2537-2542. [CrossRef](#) | [Direct Link](#) |
- 13- Shamkhy, E.T. and I.H.T. Al-Karkhi, 2012. Preparation of New Schiff Base Derived from Cyclohexylamine with Piperonaldehyde and its Cu²⁺, Co²⁺ and Rh³⁺ Metal Complexes. *Orient. J. Chem.*, 27: 1403-1408. [Direct Link](#) |
- 14- Shamkhy, E.T. and I.H.T. Al-Karkhi, 2012. Synthesis, Characterization and Spectroscopic Studies of A Novel 2-[(E)-(2,4- dichlorophenyl)imino]methyl]phenol Schiff Base and Its Metal Complexes. *E-J. Chem.*, 9: 1543-1549. [CrossRef](#) | [Direct Link](#) |
- 15- Shamkhy, E.T., I.H.T. Al-Karkhi and E.A.J. Al-Mulla, 2013. Preparation and characterization of a new SNO ligand derived from ethanebis(thioamide) and 2-hydroxybenzaldehyde, and its Cu(II), Co(II), and Rh(III) metal complexes. *Res. Chem. Intermed.*, 39: 2463-2471. [CrossRef](#) | [Direct Link](#) |
- 16- Al-Karkhi, I.H.T, 2015. Synthesis of Newly Cytotoxic and Antimicrobial Organometallic Complexes *Elixir Appl. Chem.* 30567 79 (2015) 30567-30570.
- 17- Shamkhy, E.T, Abd, S.T, Ali, V.S and Al-Karkhi, I.H. 2015. Bioactivity of Previously Synthesized 2-[(E)-Hydroxyphenyl]imino]methyl]phenol Schiff Base and its Metal Complexes. *ejbps*, 2015, Volume 2, Issue 7, 27-32.

19: Al-Karkhi, I.H.T, Yaseen, A.K. and Shamkhy, E.T. 2014. Synthesis, Characterization, Bioactivity and Cytotoxicity of NS Schiff base and its Ni (II), Cd(II) and Zn(II) metal complexes. J.Thi-Qar Sci. Vol.4 (2) May/2014

Also I was editor to a lot of research articles among them are:

- 1- Gathwan, K.H and Al-Karkhi, I. 2015. Histological and ultrastructural studies on bone of mice intoxicated with nickel salts. *Elixir Physio. & Anatomy* 80 (2015) 30799-30802
- 2- Gathwan, K.H and Al-Karkhi, I. 2015. Ultra-structural and Histological Studies on Mice Bone Under the Influence of Nickel Salt Toxicity. Volume 4, Issue 4, 357-365.
- 3- Al-Kaisy, A.Z. 2016. The Action of Soft Laser on Submandibular Salivary Gland of Mice. *ejpmr*, 2016,3(3), 26-27.
- 4- Shamkhy, E.T. 2016. Preparation and Characterization of new Schiff base Derived from Pyridine and its metal complexes. *Int. J. Curr. Res. Chem. Pharm. Sci.* (2016). 3(4): 118-123
- 5- Shamkhy, E.T. 2017. Characterization and Identification of Newly Synthesized Hetrocyclic Schiff Base and its Metal Complexes. *I.J.S.N.*, VOL.8 (1) 2017: 158-160.
- 6- Al-Sharifi, Z.A.B, Al-Ammar,H.A.J, Mahmood, H.G, Turki, K.M. and Al-Karkhi, I.I. 2017. Lack of Vitamin D in Iraqi Children with Asthma. *Biomedical & Pharmacology Journal* Vol. **10**(1), 89-93 (2017).
- 7- Bayati, A.H, Al-Bayaa, Y.G, Alwan, S.N. Al-Karkhi, I.I. 2017. Detection of Cytomegalovirus and Epstein Barr Virus in Placental Tissues of Aborted Women. *Biomedical & Pharmacology Journal* Vol. **10**(1), 221-229 (2017)