

Academic Curriculum Vitae



Personal Information: Full

Name: Hikmat Ali Mohamad

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Education:

- 2002-2007: (Ph. D in an Inorganic Chemistry). The title of the thesis is (Synthesis and Characterization Studies of Some Metal Complexes of macro ligands containing S and N Atoms). Department of Chemistry, College of Education-Ibn-Ali Haitham, University of Baghdad, IRAQ.

Employment:

- 2018 Professor of Inorganic Chemistry, Department of Chemistry, College of Education/ Salahaddin University, Erbil, IRAQ.
- 2010 Assist. Prof. of Inorganic Chemistry, Department of Chemistry, College of Education/ Salahaddin University, Erbil.
- 2004 Lecturer of Analytical Chemistry, Department of Chemistry, College of Education/ Salahaddin University, Erbil.
- 1997 Assist. Lecturer of Analytical Chemistry, Department of Chemistry, College of Education/ Salahaddin University, Erbil.
- 2008-2011, Member of Scientific Promotion Committee, College of Education/ Salahaddin University, Erbil.
- Head of Department of Chemistry College of Education/ Salahaddin University, Erbil.
(3/1/2013- 1/6/2016.

- 2015-till now, Chairman of Scientific Promotion Committee, College of Education/ Salahaddin University, Erbil.
- 2017-2020, Member of Scientific editor board of (Zanco Journal of Pure and Applied Science).
- 2020-2022, Member of Scientific Equalization Committee / Ministry of Higher Education and Scientific Research (MHE)/ KRG.
- Member of Scientific Committee in ICOWBASS conferences, 2017, 2021.
- 2022 to date Member of Scientific promotion Committee in Erbil Polytechnique University
- Reviewer of Bulletin of the chemical society / Ethiopia
- Reviewer of Oriental Journal of Chemistry.
- Reviewer of Journal of Inorganic Chemistry Communication.
- Editor Board of David publishing Company.
- Reviewer of South African Journal of Chemistry.
- Supervised fourth year under graduation projects.
- Supervised t Diploma, M.Sc. and Ph.D. students (total 20).

Qualifications:

- Computer course, Erbil, Iraq, 1998.
- Certificate of Examination of English language from Ministry of Higher education and scientific Research ,1993.
- Psychological and teaching methods, 1997.
- Computer course, Baghdad, Iraq, 2000.
- X-ray Training course (NMMU / South Africa, 2015).
- Endnote program, Erbil / Iraq, 2010

Teaching experience:

- Inorganic Chemistry / First Stage (Salahaddin University- (2004-2022).
- Inorganic Chemistry/ Third Stage / (Salahaddin University- (2004-2013).
- Inorganic Chemistry/ Second Stage / (Salahaddin University- (2004-2013).
- Inorganic Chemistry/ Third Stage / (Koya University- (2010).

- Inorganic Chemistry/ Second Stage / (Koya University- (2010).
- Advanced Inorganic Chemistry (MSc Students -College of Science and Education-university of Salahaddin.
- Molecular Symmetry and General Chemistry for Diploma Students.
- Molecular Symmetry and Reaction and Reactivity for MSc. Students.
- Molecular symmetry and Group Theory for PhD Students.
- Electronic Transition spectra for PhD student in Salahaddin and Sulaymaniyah universities.
- Organometallic for MSc students.
- Crystallography for PhD Students.
- Magnetic Susceptibility for MSc students.

Research and publications:

- Determination of Iron (II) in some Pharmaceutical by FIA using 1-(2-benzoimidazolyl-azao) 2-hydroxynaphthoic acid
- The new and direct method for determination of Iron (II) in some pharmaceuticals. (The 3rd conference of university of salahaddin- Erbil, 3-4 June-1997.
- Flow- Injection Spectrophotometric Determination of Iron (II) in pharmaceuticals with 1- (2-benzoimidazolyl-azao) -2-hydroxy-3-naphthoic acid, Al- Abhaath (pure and applied sciences) No. (12) pp-98-106(1998).
- Flow- Injection Spectrophotometric Determination of Iron (II) in tap water with 1-(2-benzoimidazolyl-azao)-2-hydroxy-3-naphthoic acid (Tikrit Science Journal).
- Radish pigments as visual acid indicators, J. Dohuk university vol (4), No 2004.
- Determination of trace amounts of cobalt by Flow injection with spectrophotometric detection Raf. J., vol (II), No.(3), pp, 1-7 (2000).
- Flow injection spectrophotometric Determination of Nitrite in metal, J. Dohuk, vol (1), No. (2) (1998).

- Flow injection spectrophotometric Determination of uranium with Eriochrome Cyanine[®] Journal of science, University of Tikrit, Vol. (1), No. (1), (2001).
- Synthesis and studies of (1, 2 –bis (5-2-thiolethylsulphide- 1,3,4- oxadiazol-2yl) ethane and its complexes with M(II): Cu, Ni, Co, Hg, J. Raf.vol. (20), No (1), pp 75-89 (2009).
- Synthesis of 2- (2-thiolethyl) thio 5- phenyl-1,3,4- Oxadiazole (TESPU) with M(II): (Cu, Ni, Co. and Hg), J. Educ.& Sci., The first conference on chemistry, Mosul University, (October-2008), Vol (21) No. (1), (2008).
- Synthesis studies of 1,2- bis (5-2) thio ethylsulphide-1,3,4- Oxadiazol- 2-yl) methane and its complexes M(II) (Cu, Ni, Co, Hg), CSASC En, V, Vol (4) college of science 4th scientific conference (2009).
- =Synthesis and characterization of phenyl bis- hydrazine complexes with pd (II), Mn (II), Ni(II) and (III)ions, Wasit Journal for Science & Medicine, 2(1), 221-238 (2009).
- Synthesis and characterization of two closed side oxadiazole ligands with their related complexes Cu (II) and pd (II), J. of Al-Anbar university for pure science, vol,3 No1, 2009.
- Synthesis, Characterization and Biological Activity of Some Lanthanide Metal Complexes with Schiff Base (Published in special No. of 4th scientific conference, Wasit University 19-20 oct. 2010).
- The preparation and characterization of some metal complexes with tridentate ONO ligand derived from phenyl hydrazine. Baghdad Science Journal vol. 8 (3) 2011.
- Synthesizes and Characterization Studies of some metal ion complexes with 2,2'-(5,5'-(ethane-1,2-diyl)bis(1,3,4-oxadiazole-5,2-diyl))bis(sulfanediyl)dibenzeneamine (EOSBE) and 2,2'-(5,5'-methylenebis(1,3,4-oxadiazole-5,2-diyl))bis (sulfanediyl)) dibenzeneamine (MOSBE) Proceeding of the 4th International Conference and

Workshop on Basic and Applied Sciences and the 11th Regional Annual Fundamental Science Symposium, 2013 (ICOWOBAS-RAFSS 2013).

-Synthesizes and Characterization Studies of Some Metal Ion Complexes with EOSBE and MOSBE, Journal of Food Science and Engineering 4 (2014) 160-165.

-Synthesis and characterization studies of mixed Ligand (1,3,4-oxadiazole derivative and ethylenediamine or acetyl acetone) complexes with Ni (II). J. Edu & Sci (under press).

-Synthesis and Characterization of Co (II), Ni (II) and Cu (II) Complexes with Thio-1, 3, 4-Oxadiazole Derivatives. Crystallizing Ideas-The Role of Chemistry (Springer book, 2016).

-Synthesis and Characterization of Pd (II) Complexes with Thio-1,3,4-Oxadiazole Derivatives, International Journal of Enhanced Research in S science.

Technology & Engineering, ISSN: 2319-7463 Vol. 3 Issue 2, February-2014, pp: (112-118), Impact Factor: 1.252, Available online at: www.erpublications.com.

-Synthesis and Characterization of Polydentate macrocyclic Schiff bases (14membered atoms) and their complexes with Co (II), Ni (II), Cu (II) and Zn (II) ions. Research Journal of Chemical Sciences, July (2015)

-Synthesis and characterization of polydentate macrocyclic Schiff bases (18-membered atoms) and their complexes with cobalt (II), nickel (II), copper (II) and zinc (II) ions. International Journal of Enhanced Research in Science Technology & Engineering, Vol. 4 Issue 6, June-2015, pp: (440-447)

-Synthesis and Characterization of Some Transition and Non-Transition Metal Complexes with New Cyclic and Open Series Containing (N, O) as Donor Atom. International Journal of Current Research in Biosciences and Plant Biology (2017)

--Synthesis and characterization of Platinum (II), Palladium (II) and Nickel (II) Complexes with same heterocyclic ligands of 1,3,4 oxadiazole derivative.

International Journal of Current Research in Biosciences and Plant Biology 4(7) 67 – 74 (2017)

- Mixed Ligand, Palladium (II) and Platinum (II) Complexes of Tertiary Diphosphines with S-1H Benzo[d] Imidazole-2-yl Benzothioate. Oriental Journal of Chemistry, 2017, Vol. 33, No. (2) 584-592
- Synthesis and Characterization of Mono and Mixed Ligand, Ni (II), Pd (II) and Pt (II) Complexes of S-5-Phenyl -1, 3, 4-Oxadiazole-2-yl Benzothioate with some Tertiary Diphosphines Ligands. (Published AIP proceeding book 2017.
- The reaction of (1, 3, 4-oxadiazole-thiolato) mercury (II) with triphenyl phosphine, Crystallographic Reports, 67(4) 2018.
- Synthesis and Characterization of Complex (BenzMelm)₂[PtCl₄], Mohamad Ali Hikmat, Mahmoud Jamal Azheen, Gerber Thomas and Hosten Eric, Chinese Journal of Inorganic Chemistry, 34(4)2018.
- Synthesis and Anticancer Activity of Mixed Ligand, Cobalt (II), Nickel (II), Manganese (II) Complexes of Tertiary Diphosphines with Dithizone (H₂dz), Oriental Journal of Chemistry, 34 (4) 2018.
- Synthesis and Characterization of Pd (II) And Pt (II) Complexes with Bis [Hg (2-Apt)], Compound, Kirkuk University Journal / Scientific Studies, 13(3), 2018
- Development a QSAR Model of 1,3,4-triazole derivatives for antioxidant activity prediction, ICOASE conference, 2018
- A quantitative structure-antioxidant relationship model for 1,3,4-oxadiazole derivatives using PLS regression ICASEE conference, 2018.
- Synthesis and characterization of some complexes of bis (2-mercaptobenzimidazole) mercury (II) with Ni (II), Pd (II), and Pt (II).

- Synthesis and characterization of some complexes of bis (2-mercaptobenzimidazole) mercury (II) with Ni (II), Pd (II), and Pt (II).
- Synthesis and Docking - Drug Designing of [HgL₂(dppf)], [HgL₂(dppe)], [HgL₂(dppm)].
- Synthesis and characterization of some complexes of bis (2-mercaptobenzimidazole) mercury (II) with Ni (II), Pd (II), and Pt (II).
- Synthesis and characterization of bis(5-phenyl-1,3,4-2yl-thio) mercury complexes with Pd (II) and Pt (II) metal. ions.
- Synthesis and reactivity towards amines of benzoisothiazolate-bridged paddle wheel dimers [M₂(μ-bit)₄·2H₂O] (M=Mn, Co, Ni, Cu), *Inorganica Chimica Acta*, vol 488, (2019), 152-158.
- Quantitative Structure- Antioxidant Relationship (QSAR) model for 1,3,4-oxadiazole derivatives using PLS regression), *ZJPAS*, 31(4S), (2019), 109-115.
 - Synthesis, Characterization and Antibacterial Activity of Mixed Ligand Complexes Palladium (II) and Platinum (II) Metal with S-5-Phenyl -1, 3, 4-Oxadiazole-2-yl Benzothioate and dppe Ligands, accepted for publication in *ZJPAS*, 2019.
- Reaction and Characterization of Ni (II), Pd (II), Pt (II) with 6-methoxy-2, 3, 4, 5 -tetrahydro pyridine (MTP)., published in *oriental journal of chemistry*, 2019.
- CHARACTERISTICS AND FATTY ACID COMPOSITION OF VARIOUS NATURAL PLANT OIL BY USING FT-IR AND GC-MS, *IGCESH* ,2018 .
- Development a QSAR Model of 1,3,4-Triazole Derivatives for Antioxidant Activity Prediction, 978-1-5386-6696-8/18/\$31.00 ©2018 IEEE.
- Synthesis and characterization complexes of bis (2-mercaptobenzimidazole)-mercury (II) with transition metal Ni (II), Pd (II), and Pt (II) . accepted for publication in *ZJPAS* ,3-10-2019.
- Synthesis and Antibacterial Studies of new mixed ligand transition metal complexes of thioester (1,3,4-oxadiazole) derivative (phozbt) and dppe ligand, accepted for publication in *ZJPAS* ,30-9-2019.

- Crystal and Molecular Structure of Platinum (II) Complex with Bis(diphenylphosphino)methane, Vol. **35**(5), 1546-1549 (2019).
- Crystal and Molecular Structure of Platinum (II) Complex with Bis(diphenylphosphino)methane, OJC, 35(5)1546-1549.
- Synthesis, Characterization, and Antibacterial Activity of Ni (II), Pd (II), and Pt (II) Complexes with 2-benzoylthiobenzimidazole, ZJPAS: 2020, 32 (2): 15-23.
- 49- Synthesis and Antibacterial Studies of new mixed ligand transition metal complexes of thioester (1, 3, 4-Oxadiazole) derivative (phozbt) and dppe Ligands., ZJPAS (2020), 32(1);45-51.
- Synthesis and characterization of bis (5-phenyl-1,3,4-oxadiazole-2-thio) mercury complexes with (II) and Pt (II) metal ions. (Accepted for publication ,2020) .
- Synthesis and characterization complexes of bis (2-mercaptobenzimidazole) mercury (II) with transition metal (Ni (II), Pd (II), and Pt (II)), ZJPAS: 2020, 32 (1): 104-109. --
- Synthesis and characterization complexes of bis (2-mercaptobenzimidazole) mercury (II) with transition metal (Ni (II), Pd (II), and Pt (II)), ZJPAS: 2020, 32 (1): 104-109.

- Studying the Physicochemical Properties and Isolation of Unsaturated Fatty Acids from Edible Oils by GC-MS and Argentated Silica Gel Chromatography, *Iraqi Journal of Science*, 2021, Vol. 62, No. 2, pp: 346-362
- Synthesis, Characterization, and X-ray Crystal Structure Analysis of Zinc (II) Complex Based on 2-benzimidazolethiole, *Egypt. J. Chem.* Vol. **64**, No. 5 pp. 2415 - 2419 (2021),
- Synthesis, Characterization, and X-ray Crystal Structure Analysis of Cu(I)/Cu (II) Complexes of Phenanthridine and Triphenylphosphine, CHINESE JOURNAL OF INORGANIC CHEMISTRY, 10110.367-1N110.26.
- New Mixed Ligand Cobalt (II), Nickel (II) and Copper (II) Complexes of 2,2'-Bipyridine-3,3'-Dicarboxylic acid (bpdc) with 2-Mercapto-5-Phenyl-1,3,4-Oxadiazole (phozSH) and Their Antioxidant activity, *Orient. J. Chem.*, Vol. **36**(5), 834-842 (2020).

- Novel Palladium (II) Complex Derived from Mixed Ligands of Dithizone and Triphenylphosphine Synthesis, Characterization, Crystal Structure, and DFT Study, *Bull. Chem. Soc. Ethiop.* **2022**, 36(3), 617-626.
- Zinc (II) Complex Containing Oxazole Ring: Synthesis, Crystal Structure, Characterization, DFT Calculations, *Acta Chim. Slov.* **2022**, 69,905-912 .

Conferences and courses attended

- The 3rd conference Salahaddin University/Erbil, June 1997.
- The 1st conference Mousil University College of Education, Oct.2008.
- The 4th Scientific conference Babylon University College of Science May, 2009.
- The 4th Scientific conference, Wasit University, Oct. 2010.
- The Iraqi center for Strategic studies, Bagdad/ Iraq, 2004.
- 1- “4th International Conference and Workshop on Basic and Applied Sciences” & “11th Regional Annual Fundamental Science Symposium 2013” (ICOWOBAS-RAFSS 2013) *“Johor, Malaysia (3-5 Sep. 2013).*
- The 2nd conference Mousil University College of Education, (17-18- November 2013).
- International Conference on Pure and Applied Chemistry (ICPAC), Mauritius-June23-27, 2014.
- International Conference on Pure and Applied Chemistry (ICPAC), Mauritius-July2-6, 2018.
- 6th International Conference and Workshop on Basic and Applied Sciences” (ICOWOBAS-RAFSS 2017) *“Erbil, Kurdistan (18 -19 Mar. 2017).*
- 8th International Conference and Workshop on Basic and Applied Sciences” .
- (ICOWOBAS-RAFSS 2021) *“(25 -26 Aug. 2021).*

Funding and academic awards

- List any bursaries, scholarships, travel grants or other sources of funding that you were awarded for research projects or to attend meetings or conferences.

Professional memberships:

- 2004-to date The Kurdistan Chemists Syndicate.
- 1994 to date The Iraqi Chemists Syndicate.
- 2008-to date The Kurdistan Teachers Syndicate.

Professional Social Network Accounts:

- **Academic Profile:** <http://academics.su.edu.krd/hikmatl.mohamad>
-
- **ORCID ID:** <https://orcid.org/0000-0002-3784-8318>