CURRICULUM VITAE

Name: Professor Dr. Ramadan M. Ramadan.

Occupation: Professor of Inorganic and Organometallic Chemistry.

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Graduation:

Ph.D. In Inorganic Chemistry, from Ain Shams University, July, 1985. Thesis title: Studies on some transition metal complexes and their analytical applications “Osmium clusters of some silane derivatives”.

M.Sc. In Chemistry, from Ain Shams University, November, 1977. Thesis title: Determination of the structure and stability of cobalt, nickel and copper complexes with some azo beta diketone derivatives.

B.Sc. In Chemistry Major, Excellent degree, from Ain Shams University, June, 1974.

Employment History:

* Professor of Inorganic Chemistry: Chemistry Department, Faculty of Science, Ain Shams University, since July 1999-till now.

* Professor of Inorganic Chemistry: Applied Chemistry Department, Faculty of Applied Science, Taibah University, Al-Madinah Al-Munawarah, Kingdom of Saudi Arabia, October, 2007-June, 2014.

* Professor of Inorganic Chemistry: Chemistry Department, Faculty of Science, King Khalid University, October 2000-July 2006.

* Associate Professor of Inorganic Chemistry: Chemistry Department, Faculty of Science, Ain Shams University, June, 1990-July, 1999.

* Assistant Professor of Inorganic Chemistry: Chemistry Department, Teachers College, Tabouk, Kingdom of Saudi Arabia, October, 1988-July, 1994.

* Lecturer of Inorganic Chemistry: Chemistry Department, Faculty of Science, Ain Shams University, May, 1985-June, 1990.

* Teaching Assistant: Chemistry Department, Faculty of Science, Ain Shams University, June, 1974-May, 1985.

* Teaching and Research Assistant: Chemistry Department, Simon Fraser University, Canada, June, 1981-September, 1984.

Research interest: Synthesis and reactivity of complexes of group VI and group VIII metal carbonyls as well as other transition metals such as Ni, Pd, Pt and Au with some molecularly designed nitrogen and oxygen donor ligands such as azine and imidazole derivatives, Schiff bases and quinones. These complexes can be used as catalysts for hydrogenation, carbonylation, hydroformylation and epoxidation reactions. They may also be used as models in biological environments. Pd, Pt and Au complexes are expected to have important cytotoxicity effects on different cancer tumors and could be potential drugs to cure such diseases. Studies of DNA interactions as well as molecular docking of synthesized complexes on biologically active macromolecular targets are intended. The crystal structure determinations of suitable single crystals of interested complexes as well as the theoretical molecular orbital calculations are investigated. Studies of the fluxoinality of dynamic inorganic and organometallic complexes by using dynamic NMR are studied. Reactions of

some essential transition metals such as Cu and Co with some amino acid derivatives and bases of biologically interest are also considered.

Other interests:

- Development of the way of teaching chemistry through the concept of the use of animated molecular modeling.
- Environmental pollution and water analysis.
- Accreditation of analytical laboratories according to ISO 17025.

Teaching experience: the topics include,

- Organometallic chemistry.
- Supramolecular chemistry.
- Coordination chemistry: theories, bonding, spectra and reaction mechanisms.
- General chemistry.
- Quantum chemistry
- Bioinorganic and chemistry of life.
- Analytical chemistry.
- Instrumental analysis.
- Chemistry of s and p block elements.
- Chemistry of d and f block transition elements.

Scientific theses supervision:

Supervision of 25 M.Sc. theses and 12 Ph.D. theses.

Scientific theses reviewing

Reviewed and refereed many MSc and PhD thesis in Egyptian Universities such Suez Canal University, Sohag University, AlFayoum University, El Mansoura University, etc.

Projects:

1- “Inorganic chemistry and environment; two faces for one coin”. Funded by Ain Shams University, 1999-2002.
2- Quality Control Manager of water analysis in Ain Shams Reference Lab (ASRL) through the project "Environmental Information Monitoring Program **(**EIMP**)** (1996-2000) sponsored by Danish International Development Assistance (DANIDA). The Egyptian Environmental Affairs Agency (EEAA) is the executing agency for EIMP.

3- “Animated molecular modeling in teaching chemistry”. Funded by Ain Shams University, 2003-2005.
4- “Synthesis and characterization of some ruthenium and osmium complexes and their applications in solar cells”. Funded by King Khalid University, Abha, Kingdom of Saudi Arabia, 2002-2004.
5- “Investigation of the thermal reactions of group 6 and 8 metal carbonyls with salicylidene-2-aminothiophenol in presence of other ligands”. Funded by King Khalid University, Abha, Kingdom of Saudi Arabia, 2002-2004.
6- "Novel binuclear transition metal complexes of molecularly designed bicompartmental Schiff base ligands". Funded by Taibah University, Al-Madinah Al-Munawarah, Kingdom of Saudi Arabia, 2011-2012.
7- Binary and ternary palladium and platinum complexes of certain nitrogen, oxygen and sulfur donor ligands. Funded by King Abulaziz City for Science and Technology (KACST), Kingdom of Saudi Arabia, 2011-2012.

Books:

1- Advances in Organometallic Chemistry, Ain Shams University, Cairo, Egypt, 1985.
2- Coordination Chemistry; Theories, Spectra and Magnetism, Ain Shams University, Cairo, Egypt, 2004.
3- Mechanism of Inorganic and Organometallic Reactions, Herraa Publisher, Jeddah, KSA, 2005 (In Arabic).
4- Inorganic and Organometallic Reaction Mechanisms, Ain Shams University, Cairo, Egypt, 2007.
5- General Chemistry; Principles, Approaches and Aspects, Ain Shams University, Cairo, Egypt, 2007.
6- General Chemistry, Al-Motanabi Book Shop, Dammam, KSA, 2008 (In Arabic).
7- Mechanism of Inorganic and Organometallic Reactions, Al-Motanabi Book Shop, Dammam, KSA, 2nd ed., 2010 (In Arabic).

Editorial board:

1- Chemistry Editor of the Journal of Taibah University for Science, 2010-2011. Web: http://jtusci.info, E mail: jtusci_chem@taibahu.edu.sa
2- Co-editor, Journal of Transition Metal Complexes (http://www.bendola.com/journals/jtmc/).

3- Member of editorial board, Chemical Engineering and Nanotechnology (http://ojs.bbwpublisher.com/index.php/cen/about/editorialTeam)

Reviewing scientific articles and projects:

Selected as a reviewer for many international scientific journals such as: Journal of Coordination Chemistry, Spectrochimica Acta A, Journal of Molecular Structure, Applied Organometallic Chemistry and Journal of Photochemistry and Photobiology. Reviewer for many projects in King Abdulaziz University, Taibah University and King Abdulaziz City for Science and Technology. External reviewer and inspection of the undergraduate and graduate chemistry programs for King Faisal University according to the ISO standards.

Refereeing work for promotion of professors and associate professors

Reviewed the work for the promotion of three professors (non-organic) in Chemistry Department, Faculty of Science, Al-Mustansiriyah University, Iraq and work for the promotion of an associate professor (medicinal chemistry) in Biochemistry Department, Faculty of Science, King Abdulaziz University.

Department Contributions:

- Establishing a scientific research school in inorganic and organometallic chemistry having many MSc, PhD, Lecturers and associate professors.
- Contribution in preparing the credit hours chemistry programs for undergraduate students.
- Contribution in preparing the credit hours inorganic chemistry programs for MSc and PhD students.
- Design many experimental inorganic labs along with corresponding books and notes.

Membership of Scientific comunities

A member of the Board of Trustees of the International Society of Transition Metal Chemistry.

LIST OF PUBLICATION

1- Novel annulated thiophene derivatives: Synthesis, spectroscopic, X-ray, Hirshfeld surface analysis, DFT, biological, cytotoxic and molecular docking studies, K.E. Anwer, G.H. Sayed, A. Kozakiewicz-Piekarz, **R.M. Ramadan**, J. Mol. Struct., 2022, in press.

2- Participation of fractional charge transfer on the efficiency of singlet oxygen production: Heteroleptic Ruthenium (II) bipyridine derivatives, K. El-Naggar, H.S. Abdel-Samad, **R.M. Ramadan**, M.E. ElKhouly, A.A. Abdel-Shafi1, J. Photochem. Photobiol. A Chemistry, 436, 2023, 114405.

3- Structural characterization of novel mononuclear Schiff base metal chelates, DFT calculations, molecular docking studies, free radical scavenging, DNA binding evaluation and cytotoxic activity, A.A. Abdel Aziz, **R.M. Ramadan**, M.E. Sidqi, M.A. Sayed, Appl. Organometal. Chem. 2022, e6954. https://doi.org/10.1002/aoc.6954

4- Physico-Mechanical Characteristics Of Reinforced Slag-Based Geopolymer Composites By Using Steel Fibers, S. Moied, H. Khater, T. Osman, F. Elhosiny, **R. Ramadan**, Egyp. J. Chem. (2022), in press.

5- Synergistic effects of graphene oxide grafted with barbituric acid nanocomposite for removal of heavy metals from aqueous solution, M.M. Abdel Wahab, G.H. Sayed, **R.M. Ramadan**, A.H. Mady, A.M. Rabie, A.A. Farag, N.A. Negm, E.A. Mohamed, Nanotechnol. Environ. Eng. (2022). https://doi.org/10.1007/s41204-022-00274-w

6- Molecular Design, Spectroscopic, DFT, Pharmacological and Molecular Docking Studies of Novel Ruthenium(III)-Schiff Base Complex; An Inhibitor of Progression in HepG2 cells, A.F.H. Noureldeen, S.W. Aziz, S.A. Shouman, M.M. Mohamed, Y.M. Attia, **R.M. Ramadan**, M.M. Elhady, Int. J. Environ. Res. Public Health (2022), 19, 13624. https://doi.org/10.3390/ijerph192013624.

7- Influence of sodium hydroxide solution on the physico-mechanical parameters of limestone and dolostone on the concrete durability, R.A. Mohamed, T. Elsokkary, S. Zedan, F. Elhosiny, **R.M. Ramadan**, Egyp. J. Chem. (2022), in press.

8- New transition metal complexes of 1-phenyl-2-((quinolin-2-ylmethylene)amino)ethan-1-ol Schiff base: Spectroscopic, X-ray, DFT, Hirshfeld surface analysis, biological and molecular docking studies, F.M. Elantabli, S.M. El-Medani, A. Kozakiewicz-Piekarz, **R.M. Ramadan**, Appl. Organometal. Chem. (2022), e6779. https://doi.org/10.1002/aoc.6779.

9- Synthesis, spectroscopic elucidation and biological evaluation of new mixed ligand binuclear ruthenium(II) complexes incorporating 2,2'-bipyridine and bridged flexible

Schiff base ligands containing *ortho*-vanilin motif, N.G. Rashid, M.A. Sayed, A.A. Abdel Aziz, **R.M. Ramadan**, Inorganic and Nano-Metal Chemistry (2022), in press.

10- Synthesis, spectroscopic, DFT calculations, biological activities and molecular docking studies of new isoxazolone, pyrazolone, triazine, triazole and amide derivatives, K.E. Anwer, G.H. Sayed, **R.M. Ramadan**, J. Mol. Struct. (2022) 132513. https://doi.org/10.1016/j.molstruc.2022.132513

11- Spectroscopic, DFT analysis, antimicrobial and cytotoxicity studies of three gold(III) complexes, **R.M. Ramadan**, A.F.H. Noureldeen, M.M. Abo-Aly and S.M. El-Medani, Inorganic and Nano-Metal Chemistry, 52 (2022) 213-225.
DOI: 10.1080/24701556.2021.1891102

12- Molecular structural, vibrational assignments, electronic structure and DFT calculations, and molecular docking of N-benzylideneaniline and N-salicylideneo-aminoaphenol Schiff bases, **R.M. Ramadan**, M.M. Abo-Aly, A.A.M. Lasheen, Inorganic and Nano-Metal Chemistry (2021) DOI: 10.1080/24701556.2021.1988976.

13- Design, synthesis, biomedical investigation, DFT calculation and molecular docking of novel Ru(II)-mixed ligand complexes, S.E. Mohamed, **R.M. Ramadan**, A.E. Aboelhasan, A.A. Abdel Aziz, Journal of Biomolecular Structure & Dynamics, 2021, DOI: 10.1080/07391102.2021.2017355

14- Assessment of 3-amino-1H-1,2,4-triazole modified layered double hydroxide in effective remediation of heavy metal ions from aqueous environment, A. Amer, G.H. Sayed, **R.M. Ramadan**, A.M. Rabie, N.A. Negm, A.A. Farag, E.A. Mohammed, Journal of Molecular Liquids (2021) 116935. https://doi.org/10.1016/j.molliq.2021.116935

15- Spectroscopic, density functional theory, non-linear optical properties and *in vitro* biological studies of Co(II), Ni(II) and Cu(II) complexes of hydrazide Schiff base derivatives, **R.M. Ramadan**, S.M. El-Medani, A.A. Makhlouf, H. Moustafa, M.A. Afifi, M. Haukka, and A.A. Abdel Aziz, Appl. Organometal. Chem. (2021), e6246. https://doi.org/10.1002/aoc.6246

16- Spectroscopic and theoretical studies of some bivalent metal complexes of a quinoline Schiff base derivative, **R.M. Ramadan**, R.G. Mohamed, M. Hassan and S.M. El-Medani, J. Trans. Met. Compl. 3 (2020), Article ID 246114, doi:10.32371/jtmc/246114.

17- Spectroscopic, crystal structural, theoretical and biological studies of phenylacetohydrazide Schiff base derivatives and their copper complexes, S.M. El-

Medani, A.A. Makhlouf, H. Moustafa, M.A. Afifi, M. Haukka and **R.M. Ramadan**, J. Mol. Struct. 1208, (2020) 127860. https://doi.org/10.1016/j.molstruc.2020.127860

18- Oxygen quenching of the excited MLCT state of ruthenium (II) bipyridyl heteroleptic complexes and singlet oxygen thereby produced, K. El-Naggar , H.S. Abdel-Samad, M.E. El-Khouly, Ayman A. Abdel-Shafi and **R.M. Ramadan**, J. Sci. Res. in Science, 36, 242-251 (2019). DOI: 10.21608/JSRS.2019.34281.

19- Conversion of thiol to homodisulfide-Schiff base derivative: Synthesis, molecular structure, crystal structure and DFT studies, **R.M. Ramadan**, F.M. Elantabli and S.M. El-Medani, J. Mol. Struct. 1196, 547-554 (2019).

20- Synthesis, spectroscopic and DFT studies of some platinum-pyrazine carboxamide derivatives. **R.M. Ramadan**, A.K. Abu Al-Nasr and S.M. El-Medani, J. Trans. Met. Complexes, (2018). (doi:10.32371/jtmc/236066).

21- Spectroscopic, DFT, biological, DNA binding and antioxidant studies of some metal chelates with a novel thiazole derived Schiff base. R.G. Mohamed, A.A. Makhlouf, S.A. Mosad, A.A. Abdel Aziz, S.M. El-Medani and **R.M. Ramadan**, J. Coord. Chem. 71, 3665-3688 (2018). (doi.org/10.1080/00958972.2018.1526375).

22- Synthesis, spectral, thermal and magnetic studies of chromium and molybdenum carbonyl complexes containing N_2O_2 donor sites, O.A.M. Ali, **R.M. Ramadan**, A.S.S. Sayed, Int. J. Adv. Res. Chem. Sci., 6, 1-9 (2018).

23- Synthesis, spectroscopic, DFT studies and biological activity of some ruthenium carbonyl derivatives of bis-(salicylaldehyde)phenylenediimine Schiff base ligand. **R.M. Ramadan**, A.K. Abu Al-Nasr and O.A.M. Ali, J. Mol. Struct., 1161, 100-107 (2018). https://doi.org/10.1016/j.molstruc.2018.01.071

24- Synthesis, spectroscopic characterization, thermal behavior and in vitro antimicrobial and anticancer activities of novel ruthenium tricarbonyl complexes containing monodentate V-shaped Schiff bases. **R.M. Ramadan**, W.M. Elsheemy, N.S. Hassan and A.A. Abdel Aziz, Appl. Organometal. Chem. 32 (2018): e4180. (https://doi. org/10.1002/aoc.4180).

25- Antitumor and Antioxidant Activities of a Novel Platinum(II)-PyrazineCarboxamide Complex Against Ehrlich Ascites Carcinoma Induced in Mice. A.F.H. Noureldeen, S.Y. Qusti, E.M. Al-shammari and **R.M. Ramadan**, International Journal of Pharmaceutical and Phytopharmacological Research, 7(6), 1-10 (2017).

26- Antioxidant activity and histopathological examination of chromium and cobalt complexes of bromobenzaldehydeiminacetophenone against Ehrlich ascites carcinoma

cells induced in mice. A.F.H. Noureldeen, H.M. Gashlan, S.Y. Qusti and **R. M. Ramadan**, International Journal of Pharmaceutical and Phytopharmacological Research, 7(4), 7-12 (2017).

27- Anticancer activity of bis-(4-bromobenzaldehyde-4-iminacetophenone)-diaquozinc(II) nitrate complex against Ehrlich ascites carcinoma cells induced in mice. S. Qusti, A. Noureldeen, D. Al-Ajroush and **R. M Ramadan**, Aust. J. Basic Appl. Sci., 11: 228-240 (2017).

28- *In vivo* antitumor activity of bis (4-bromobenzaldehyde-4-iminacetophenone) tetraaquochromium (III) sulphate complex against Ehrlich ascites carcinoma cells induced in mice. A. F. H. Noureldeen, H. M. Gashlan, N. A. Al-Ghamdi and **R. M. Ramadan**, Res. J. Pharm. Biol. Chem. Sci., 8, 1406 (2017).

29- Antibacterial and antitumor effects of bis-(4-bromobenzaldehyde-4-iminacetophenone)tetraaquocobalt(II) sulphate complex, A. F. H. Noureldeen, S. Y. Qusti, W. A. Alamoudi, A. I. Rawas and **R. M. Ramadan**, Adv. Environm. Biol., 10, 159-170 (2016).

30- Spectroscopic studies, biological activity and cytotoxicity of some binary and ternary palladium and platinum complexes of certain heterocyclic ligands, **R. M. Ramadan** and N. S. Al-Raddady, Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, 45, 1183 (2015).

31- Synthesis and characterization of new binary and ternary palladium and platinum complexes affective to antitumor, N.S. Al-Radadi and **R.M. Ramadan**, Eu. Sci. J.,10, 1857 (2014).

32- Synthesis, spectroscopic and structural studies of ruthenium carbonyl derivatives of N-salicylidene-2-hydroxyaniline Schiff base, O. A. M. Ali, A. K. Abu Al-Nasr and **R. M. Ramadan**, J. Taibah Univ. Sci, 8, 258 (2014).

33- Synthesis, spectroscopic studies, antimicrobial activities and antitumor of a new monodentate V-shaped Schiff base and its transition metal complexes, **R. M. Ramadan**, K. Abu Al-Nasr and A.F.H. Noureldeen, Spectrochimica Acta Part A, 132, 417-422 (2014). https://doi.org/10.1016/j.saa.2014.04.151

34- Synthesis and spectroscopic studies of some chromium and molybdenum derivatives of bis-(acetylacetone)ethylenediimine ligand, **R. M. Ramadan**, L. H. Abdel-Rahman, M. Ismael, T. A. Youssef and S. A. Ali, J. Mol. Struct., *1049*, 7 (2013). https://doi.org/10.1016/j.molstruc.2013.06.024

35- Synthesis and characterization of some new binary and ternary copper complexes: X-ray crystal structural of dioxodinuclear bipyridine copper complex, **R. M. Ramadan**, S. M. Shohayeb and R. G. Mohamed, Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, *43*, 609 (2013).

36- Spectroscopic studies and biological activity of some transition metal complexes of unusual Schiff base, A. K. Abu Al-Nasr and **R. M. Ramadan**, Spectrochimica Acta Part A, 105, 14 (2013).

37- Unusual catalytic process involving OH and NH exchange**, R. M. Ramadan** and A. K. Abu Al-Nasr, International J. Org. Chem., *2*, 64 (2012): doi: 10.4236/ijoc.2012.21011.

38- Reactions of 2'-hydroxy methoxylated chalcone with group 6 and 8 metal carbonyl complexes under sunlight irradiation: Synthesis, characterization, spectroscopic investigation and biological activities, M.M.H. Khalil, **R.M. Ramadan**, M.A.I. Salem, M.I. Marzouk and M.S. Moftah, Egy. J. Pure & Appl. Sci., 19-29 (2011).

39- Improvements of Dyes Properties by Transition Metal Chelation, Nagia F. Ali1, Shahera M. Shohayeb2, and Ramadan M. Ramadan, Current and Prospective Innovations in Chemistry & Technology of Textiles 7, 112 (2010).

40- Synthesis and spectroscopic studies of some new molybdenum, tungsten and ruthenium carbonyl derivatives of 2-hydroxymethylpyridine, M. A. Taher, S. E. Jarelnabbi, B. E. Bayoumi, S. M. El-Medani and **R. M. Ramadan**, International J. Inorg. Chem, *2010* (2010): doi:10.1155/2010/296215.

41- Synthesis and spectroscopic studies of some new metal carbonyl derivatives of 1-(2-pyridylazo)-2-naphthol, M. A. Taher, S. E. Jarelnabbi, A. G.M. Al-Sehemi, S. M. El-Medani and **R. M. Ramadan**, J. Coord. Chem., *62*, 1293 (2009).

42- Synthesis and characterization of some new mono- and binuclear copper(II) ternary complexes; X-ray crystal structure of copper(II)-N-(acetyl) phenylglycinate-imidazole ternary complex, L. H. Abdel-Rahman and **R. M. Ramadan**, J. Coord. Chem., *60*, 1891 (2007).

43- Ruthenium carbonyl derivatives of N-salicylidene-2-hydroxyaniline Schiff base, O. A. M. Ali, L. H. Abdel-Rahman and **R. M. Ramadan**, J. Coord. Chem., *60*, 2335 (2007).

44- Synthesis and characterization of some new cobalt(II) and nickel(II) ternary complexes of N-acetyl, N-benzoyl and N-tosyl derivatives of amino acids, L. H. Abdel-Rahman, L. A. Nasser and **R. M. Ramadan**, Transition Met. Chem., *32*, 367 (2007).

45- Reactions of molybdenum and ruthenium carbonyls with some pyridylamine ligands, A. A. Soliman, M. M. Khattab and **R. M. Ramadan**, Transition Met. Chem., *32*, 325 (2007).

46- Spectroscopic and electrochemical studies of some molybdenum and ruthenium complexes of N-[(2-pyridyl)methyl]-2,2'-dipyridylamine, **R. M. Ramadan**, M. S. A. Hamza, H. A. Mohamed and S. M. El-Medani, Transition Met. Chem., *31*, 107 (2006).

47- Spectroscopic and thermal studies of chromium(III), molybdenum(VI) and ruthenium(0) complexes of maleic hydrazide, H. A. Mohamed, S. A. Ali and **R. M. Ramadan**, Spectrochim. Acta, *64A*, 913 (2006).

48- Novel chromium and molybdenum complexes of a dimerized isonicotinic acid hydrazide, S. A. Ali, H. A. Mohamed and **R. M. Ramadan**, J. Coord. Chem., *59*, 467 (2006).

49- Spectroscopic and X-ray crystal structure studies of 2-aminothiazole-3,5-dinitrobenzoic acid and 3,5-dinitrosalicylic acid derivatives, H. A. Mohamed, S. M. El-Medani and **R. M. Ramadan**, J. Ind. Chem. Soc., *82*, 799 (2005).

50- Spectroscopic, thermal and X-ray crystal structure studies of some bis-(pyrazine-2-carboxylato) nickel(II) complexes, S. M. El-Medani, O. A. M. Ali, H. A. Mohamed and **R. M. Ramadan**, J. Coord. Chem., *58*, 1429 (2005).

51- Photochemical reactions of group 6 metal carbonyls with N-salicylidene-2-hydroxyaniline and bis-(salicylaldehyde)phenylenediimine, S. M. EL-Medani, O. A. M. Ali and **R. M. Ramadan**, J. Mol. Struct., *738*, 171 (2005).

52- Reactions and spectroscopic studies of group 6 metal carbonyls with pyrazinecarboxamide and certain phosphine ligands, S. M. El-Medani, C. Sharaby and **R. M. Ramadan**, J. Coord. Chem., *58*, 1241 (2005).

53- Spectroscopic and electrochemical studies of ruthenium and osmium complexes of salicylideneimine-2-thiophenol Schiff base, M. M. H. Khalil, M. M. Aboaly and **R. M. Ramadan,** Spectrochimica Acta, *61A*, 157-161 (2005).

54- Reactions of group 6 metal carbonyls with salicylaldehyde hydrazone, S. M. EL-Medani, M. M. Aboaly, H. H. Abdalla and **R. M. Ramadan**, Spectroscopy Letters, *37*, 1-4 (2004).

55- Spectroscopic and thermal studies of some palladium complexes with certain heterocyclic nitrogen ligands, **R. M. Ramadan**, S. M. El-Medani, O. A. M. Ali and H. A. Mohamed, J. Coord. Chem., *57*, 373 (2004).

56- Reactions of chromium and molybdenum carbonyls with bis-(salicylaldehyde)ethylenediimine Schiff base, D. Y. Sabry, T. A. Youssef, S. M. EL-Medani and **R. M. Ramadan**, J. Coord. Chem. *56*, 1375 (2003).

57- Group VI dinuclear oxo metal complexes of salicylideneimine-2-anisole Schiff base, O. A. M. Ali, M. M. H. Khalil, G. M. Attia and **R. M. Ramadan**, Spectroscopy Letters, *36*, 71 (2003).

58- New Group 6 metal carbonyl derivatives of 2-(2′-pyridyl) benzimidazole; synthesis and spectroscopic studies, M. M. H. Khalil, H. A. Mohamed, S. M. El-Medani, and **R. M. Ramadan**, Spectrochimica Acta, *59A*, 1341 (2003).

59- Molybdenum and tungsten complexes of biquinoline. Crystal structure of $W(CO)_4$(Biquinoline), A. O. Youssef , M. M. H. Khalil, A. A. Soliman and **R. M. Ramadan**, Transition Met. Chem., *28*, 331 (2003).

60- Spectroscopic and X-ray crystal structure of 2-aminobenzimidazole-trinitrobenzene charge-transfer and 2-aminobenzimidazole-picric acid ion-pair derivatives. S. M. El-Medani, T. A. Youssef and **R. M. Ramadan**, J. Mol. Struct., *644*, 77, (2003).

61- Chromium, molybdenum and ruthenium complexes of 2- hydroxyacetophenone Schiff bases. S. A. Ali, A. A. soliman, M. M. Aboaly and **R. M. Ramadan**, J. Coord. Chem., *55*, 1161-1170 (2002).

62- Ruthenium, osmium and rhodium-2,3-bis (2′-pyridyl)quinoxaline complexes. A. A. Abdel-Shafi, M. M. H. Khalil, H. H. Abdalla and **R. M. Ramadan**, Transition Met. Chem., *27*, 69 (2002).

63- Spectro- and electrochemical studies of some ruthenium and osmium complexes of 2-(2′-pyridyl)benzimidazole; complexes with intra-molecular charge transfer. M. M. H. Khalil, S. A. Ali and **R. M. Ramadan**, Spectrochim. Acta, *57*, 1017 (2001).

64- Thermal studies of chromium, molybdenum and ruthenium complexes of chloranilic acid. A. A. Soliman, S. A. Ali, M. M. H. Khalil and **R. M. Ramadan**, Thermochimica Acta *359*, 37 (2000).

65- Chromium, molybdenum and ruthenium complexes of chloranilic acid. S. A. Ali, M. M. H. Khalil and **R. M. Ramadan**, Transition Met. Chem., *25*, 121 (2000).

66- Coordination chemistry of new ruthenium and osmium dihydroxyquinoxaline complexes. **R. M. Ramadan**, M. S. A. Hamza, A. M. Salem and F. M. El-Zawawy, Transition Met. Chem., *24*, 193 (1999).

67- Synthesis and physicochemical studies of some new tungsten dimethylglyoxime complexes. **R. M. Ramadan**, Transition Met. Chem., *23*, 507 (1998).

68- Reactions of chromium and molybdenum carbonyls with a quadridentate Schiff base. **R. M. Ramadan**, M. S. A. Hamza and S. A. Ali, J. Coord. Chem., *43*, 31 (1998).

69- Electronic structure and bonding in chrysenequinone complexes. Synthesis and characterization of $M(CO)_3$(Chrysenequinone), M=Ru and Os. **R. M. Ramadan**, J. Coord. Chem., *42*, 181 (1997).

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3- Spectrophotometric analysis: Theories and fundamentals. The first scientific symposium on chemical and radioactive analysis and their military and civilian applications, Cairo, 29-30 March (1997).

4- Workshops presented in various Research and Development Institution Centers in Egyptian Universities about "Accreditation of Analytical Chemistry Laboratories" including lectures with the titles:

- Method validation for Environmental Chemistry Laboratories.
- Applied statistics for Analytical Chemistry Laboratories.
- Quality control for Environmental Chemistry Laboratories.
- Auditing on Environmental Chemistry Laboratories.

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