



PROF. DR. RAMADAN MOHAMED RAMADAN

PROFESSOR OF INORGANIC CHEMISTRY

Name Professor Dr. Ramadan M. Ramadan.

Occupation Professor of Inorganic Chemistry.

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Web of Science: <https://www.webofscience.com/wos/author/record/AHB-9461-2022>
Google scholar: <https://scholar.google.com/citations?user=uORM7PAAAAAJ&hl=en>
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Education **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 organometallic 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, pyrazine and imidazole derivatives, biologically active Schiff bases and quinones.
- These complexes can be used as catalysts for hydrogenation, carbonylation, hydroformylation and epoxidation reactions.
- They may be used as models in biological environments, such antimicrobial, antioxidant, DNA interactions, and antitumor reagents, as well as their applications as potential antibiotic and anticancer drugs.
- Pd, Pt and Au complexes are expected to have important cytotoxic effects on different cell lines of cancer tumors. Evaluation of such complexes is carried out using drug design and drug discovery concepts with the aid of virtual and simulating tools such molecular docking and molecular dynamic simulation.
- The crystal structure determinations of suitable single crystals of interested complexes. Studies of the Hirshfeld surface of these complexes will give emphasis on the types and energies of intra- and intermolecular interactions.
- Studies of the fluxoinality of dynamic inorganic and organometallic complexes by using dynamic NMR.
- Theoretical studies of the energy optimized geometrical structure of complexes using DFT calculations as well as estimation of reactivity descriptors, which they related to their biological activities.
- Reactions of some essential transition metal ions such as Co(II), Ni(II), Cu(II) and Zn(II) as well as other ions such as Ag(I), 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

- Topics include,
- Advanced 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.

Theses

Supervision of 35 M.Sc. theses and 24 Ph.D. theses in Ain Shams University, Fayoum

Supervision University and Suez Canal University.

Scientific Theses Reviewing Reviewed and refereed many MSc and PhD thesis in Egyptian Universities such Suez Canal University, Sohag University, Fayoum University, Mansoura University, etc., as well as other foreigner like Taibah University, King Khaled University.

Projects

- 1- "Novel binuclear transition metal complexes of molecularly designed bicompartamental Schiff base ligands". Funded by Taibah University, Al-Madinah Al-Munawarah, Kingdom of Saudi Arabia, 2011-2012.
- 2- 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.
- 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- "Inorganic chemistry and environment; two faces for one coin". Funded by Ain Shams University, 1999-2002.
- 7- 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.

Books

- 1- Chapter 12 (PP 221-244), Molecular Docking and Drug Design of Schiff Base Metal Complexes, In: Structural and Biological Applications of Schiff Base Metal Complexes, edited by P. Jain and P. Singh, CRC Press, Taylor & Francis Group, London, 2023.
- 2- Mechanism of Inorganic and Organometallic Reactions, Al-Motanabi Book Shop, Dammam, KSA, 2nd ed., 2010 (In Arabic).
- 3- General Chemistry, Al-Motanabi Book Shop, Dammam, KSA, 2008 (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- Mechanism of Inorganic and Organometallic Reactions, Herra Publisher, Jeddah, KSA, 2005 (In Arabic).
- 7- Coordination Chemistry; Theories, Spectra and Magnetism, Ain Shams University, Cairo, Egypt, 2004.
- 8- Advances in Organometallic Chemistry, Ain Shams University, Cairo, Egypt, 1985.

Editorial Board

- 1- Guest editor for a special issue in "Frontiers in Chemistry", an international Journal (Q2 - Impact factor 5.22). Title of the special issue "Biological and medicinal applications of transition metal coordination complexes of nitrogen based heterocyclic derivatives". The link of the special issue is: <https://www.frontiersin.org/research-topics/46514/biological-and-medicinal-applications-of-transition-metal-coordination-complexes-of-nitrogen-based-h>.
- 2- Co-editor, Journal of Transition Metal Complexes (<http://www.bendola.com/journals/itmc/>).

- 3- Member of editorial board, Chemical Engineering and Nanotechnology (<http://ojs.bbwpublisher.com/index.php/cen/about/editorialTeam>).
- 4- Chemistry Editor of the Journal of Taibah University for Science, 2010-2011. Web: <http://jtusci.info>, E mail: jtusci_chem@taibahu.edu.sa

Reviewer for Scientific Articles and Projects

- 1- A reviewer for many international scientific journals such as:
 - American Chemical Society: ACS Omega
 - Journal of Coordination Chemistry
 - Spectrochimica Acta A
 - Journal of Molecular Structure
 - Applied Organometallic Chemistry
 - Journal of Photochemistry and Photobiology.
 - [Inorganic Chemistry Communications](#)
 - Catalysis Communications
 - Bioorganic Chemistry
 - African Journal of Pure and Applied Chemistry
 - Spectroscopy Letters
 - Egyptian Journal of Chemistry
- 2- A reviewer for many projects in King Abdulaziz University, Taibah University and King Abdulaziz City for Science and Technology.
- 3- External reviewer and inspection of the undergraduate and graduate chemistry programs for King Faisal University according to the ISO standards.

Reviewing Work for Promotion of Professors and Associate Professors

- A certified reviewer in the lists of promotion committees affiliated to the Supreme Council of Universities (Egypt) for Permanent Scientific Committee for Inorganic Chemistry, the National Research Center and the Permanent Scientific Committee for Aquatic Sciences, Fisheries and Aquaculture.
- 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.

Chemistry Department Contributions

- Establishing a Scientific Research School in Inorganic and Organometallic Chemistry graduated many MSc and PhD students, Lecturers and Associate Professors.
- Contribution in preparing the credit hours system for chemistry programs for undergraduate students.
- Contribution in preparing the credit hours system for inorganic chemistry programs for MSc and PhD students.
- Design many experimental for inorganic labs along with corresponding books and notes.

Membership of Scientific Communities

- A fellow of the American Chemical Society (Membership ID: 33510101).
- A fellow of the Board of Trustees of the International Society of Transition Metal Chemistry.

List of Publications

- 1- Structural and biomedical investigations of novel ruthenium Schiff base complexes, **R.M. Ramadan**, H.H. El-Shalakany, M.A. Sayed, 15, 2025, 18546.
- 2- Facile synthesis and characterization of two new Pd(II) cocrystal complexes based on multifunctional quinoxaline ligands: X-ray crystallography, quantum chemical studies, molecular docking and biological profile, **R.M. Ramadan**, W.M. Elsheemy, A.A. Abdel Aziz, A. Kozakiewicz-Piekarz, M.A. Sayed, Inorganic Chemistry Communications, 178, 2025, 114596.

- 3- Catalytic reduction, and bio evaluation for new favipiravir silver (I) nano complexes: Synthesis, structural characterization, optical properties , DFT study, and molecular docking, D.A. Nassar, O.A.M. Ali, **R.M. Ramadan**, Z.H. Abd El-Wahab, *Materials Chemistry and Physics*, 337, 2025, 130530.
- 4- Solution structure, oxidative DNA damage, biological activity and molecular docking of ternary copper(II) L-argininato complexes, A. Wojciechowska, R. Bregier-Jarzębowska, U.K. Komarnicka, A. Szuster-Ciesielska, M. Sułek, A. Bojarska-Junak, **R.M. Ramadan**, J. Jezierska, *Biochimie*, 230, 2025, 121-137.
- 5- Novel heteroleptic ruthenium complexes incorporating 6,7-dichloro-2,3-di(pyridine-2-yl)quinoxaline as polypyridyl bridging ligand: Synthesis, characterization, photophysical, electrochemistry, *in vitro* biological activity and molecular docking studies, M.M. Hammam, **R.M. Ramadan**, A.A. Abdel Aziz, M.A. Sadek, A.M. Salem., *J. Mol. Struct.* 1323, 2025, 140748.
- 6- Catalyzed syntheses of novel series of spiro thiazolidinone derivatives with nano Fe₂O₃: spectroscopic, X-ray, Hirshfeld surface, DFT, biological and docking evaluations, E.M. Abbass, A. El-Rayyes, A.K. Ali, A.F. El-Farargy, A. Kozakiewicz-Piekarz, **R.M. Ramadan**, *Scientific Reports* (2024) 14:18773. <https://doi.org/10.1038/s41598-024-65282-z>
- 7- Crystal structure, Hirshfeld surface analysis, molecular modeling, electrochemical properties, and potential medicinal activity of a novel binuclear Co(II) complex, W.M. Elsheemy, A.A. Abdel Aziz, **R.M. Ramadan**, A. Kozakiewicz-Piekarz, M.A. Sayed, *Appl. Organomet. Chem.* 38, 2024, e7641.
- 8- DNA Binding and Antioxidant Activities of Novel Synthesized Fe(III), Ni(II) and Cu(II) Complexes Derived from Monodentate V-Shaped Schiff Bases, **R.M. Ramadan**, A.M.A. Naeem, A.E. Aboelhasan, A.A. Abdel Aziz, *J. Transition Metal Complexes*, 7, 2024, Article ID 246166. [doi:10.32371/jtmc/246166](https://doi.org/10.32371/jtmc/246166)
- 9- Structural investigations of new tridentate-phenylacetohydrazide Schiff base metal chelates: X-ray diffraction, Hirshfeld surface analyses, DFT, antibacterial and molecular docking studies, F.M. Elantabli, R.G. Mohamed, S.M. El-Medani, M. Haukka, **R.M. Ramadan**, M.A. Afifi, *J. Mol. Struct.* 1299, 2024, 137230.
- 10- New bivalent metal chelates based on an NO-donor Schiff base ligand: synthesis, structural characterization, DFT simulation, biological evaluation, and molecular docking analysis, H.H. El-Shalakany, **R.M. Ramadan**, M.A. Sayed, *Inorganic Chemistry Communications*, 159, 2024, 111826.
- 11- Molecular docking and drug design of Schiff base metal complexes, **Ramadan, R.M.**, Noureldeen, A.F.H., In: *Structural and Biological Applications of Schiff Base Metal Complexes*, edited by P. Jain and P. Singh, CRC Press, Taylor & Francis Group, London, pp. 221-244 (2023).
- 12- Synthesis, spectroscopic, DFT calculations, biological activity, SAR, and molecular docking studies of novel bioactive pyridine derivatives, K.E. Anwer, Z.K. Hamza, **R.M. Ramadan**, *Scientific Reports*, 13, 2023. 15598. <https://doi.org/10.1038/s41598-023-42714-w>
- 13- Reactions of Group VIB metal carbonyls with two novel rigid macrocyclic Schiff base ligands incorporating acridine inter-crossing group, D.S. Ali, A. Kozakiewicz-Piekarz, H.A. Mohamed, **R.M. Ramadan**, F.M. Elantabli, *J. Mol. Struct.* 1292 (2023) 136113.
- 14- 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.*, 1276, 2023, 134798.
- 15- 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.
- 16-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. 37, 2023, e6954. <https://doi.org/10.1002/aoc.6954>
- 17-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, 41 (2023) 1233-1252.
- 18-Physico-mechanical characteristics of reinforced slag-based geopolymer composites by using steel fibers, S. Moied, H. Khater, T. Osman, F. Elhosiny, **R. Ramadan**, Egypt. J. Chem. 65, 2022, 727-733.
- 19-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>
- 20-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>.
- 21-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**, Egypt. J. Chem. 65, 2022, 1269-1280.
- 22-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. 36 (2022), e6779. <https://doi.org/10.1002/aoc.6779>.
- 23-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.
- 24-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. 1256 (2022) 132523. <https://doi.org/10.1016/j.molstruc.2022.132513>
- 25-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](https://doi.org/10.1080/24701556.2021.1891102)
- 26-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](https://doi.org/10.1080/24701556.2021.1988976)
- 27-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>
- 28-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. Makhlof, H. Moustafa, M.A. Afifi, M. Haukka, and A.A. Abdel Aziz, Appl. Organometal. Chem. 35 (2021), e6246.
<https://doi.org/10.1002/aoc.6246>
- 29-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.
- 30-Spectroscopic, crystal structural, theoretical and biological studies of phenylacetohydrazide Schiff base derivatives and their copper complexes, S.M. El-Medani, A.A. Makhlof, 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>
- 31-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.
- 32-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).
- 33-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)
- 34-Spectroscopic, DFT, biological, DNA binding and antioxidant studies of some metal chelates with a novel thiazole derived Schiff base. R.G. Mohamed, A.A. Makhlof, 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)
- 35-Synthesis, spectral, thermal and magnetic studies of chromium and molybdenum carbonyl complexes containing N₂O₂ donor sites, O.A.M. Ali, **R.M. Ramadan**, A.S.S. Sayed, Int. J. Adv. Res. Chem. Sci., 6, 1-9 (2018).
- 36-Synthesis, spectroscopic, DFT studies and biological activity of some ruthenium carbonyl derivatives of bis-(salicylaldehyde)phenylenedimine 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>
- 37-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>)
- 38-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).
- 39-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).
- 40-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-Ajrourh and **R. M. Ramadan**, Aust. J. Basic Appl. Sci., 11: 228-240 (2017).
- 41-*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).
- 42-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).
- 43-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).
- 44-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).
- 45-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).
- 46-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>
- 47-Synthesis and spectroscopic studies of some chromium and molybdenum derivatives of bis-(acetylaceton)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>
- 48-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).
- 49-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).
- 50-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](https://doi.org/10.4236/ijoc.2012.21011)
- 51-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).
- 52-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).
- 53-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](https://doi.org/10.1155/2010/296215)
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Workshops and Symposia	<p>1- Molecular modeling; a vital approach in teaching chemistry. In a workshop with the title "Ain Shams University experts in using teaching technology". "Technology in Teaching" Conference, Center of Science Development, Ain Shams University, 23-24 May (2000).</p> <p>2- Molecular modeling; a vital approach in teaching chemistry (Education of Chemistry Symposium). The 15th Egyptian Chemical Conference, The Egyptian Chemical Society, Cairo, 20-25 November (1999).</p> <p>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).</p> <p>4- Workshops presented in various Research and Development Institution Centers in Egyptian Universities about "Accreditation of Analytical Chemistry Laboratories" including lectures with the titles:</p> <ul style="list-style-type: none"> - Method validation for Environmental Chemistry Laboratories. - Applied statistics for Analytical Chemistry Laboratories. - Quality control for Environmental Chemistry Laboratories. - Auditing on Environmental Chemistry Laboratories. <p style="text-align: right;">ندوات عن " معايير اعتماد معامل التحاليل الكيميائية " محاضرات تحت العناوين الآتية:</p> <ul style="list-style-type: none"> - الإحصاء التطبيقي بمعامل التحاليل. - توثيق طرق التحاليل. - برامج ضبط وتأكيد الجودة. - التفتيش على المعامل.
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