

## **CURRICULUM VITEA**

### **Adel Abbas Ahmed Emara**

أ.د/ عادل عباس أحمد عمارة

Department of chemistry (002) 02 2455 8086 (Work)  
Faculty of Education (002) 02 2455 1530 (Home)  
Ain Shams University 01023131160 (Mobile)  
Roxy, Cairo **Nationality:** Egyptian  
Egypt **Date of birth:** Nov. 22, 1959



بطاقة الرقم القومي: 25911220102936

ORCID Number: <https://orcid.org/0000-0002-9217-2920>

E-mail: [adelemara@edu.asu.edu.eg](mailto:adelemara@edu.asu.edu.eg) or [adelaemara@yahoo.com](mailto:adelaemara@yahoo.com) or [adelaemara@gmail.com](mailto:adelaemara@gmail.com)

**Current Address:** 53 El-Maqrizy Street, Manshiat El-Bakry, Heliopolice, Cairo, Egypt.

**Marital Status:** Married with 3 Children.

## **EDUCATION**

- Ph.D. in Chemistry, McMaster University, Hamilton, Ontario, L8S 4M1 Canada. Thesis Title: Lewis Acid Properties of  $XeF^+$  Cation and its Adducts with Organic Nitrogen Bases. (September 1986 – May 1992). Academic Supervisor: Prof. G.J. Schrobilgen.
- M.Sc. in Chemistry, Ain Shams University, Cairo, Egypt. Thesis Title: Preparation and Study of Selenito Complexes of Transition Metals. (September 1982 – May 1986). Academic Supervisor: Prof. K.A.R. Salib
- B.Sc. in Chemistry, Ain Shams University, Cairo, Egypt. (September 1977 – May 1981).

## **EMPLOYMENT HISTORY**

- Professor in Environmental and Inorganic Chemistry, Department of Chemistry, Faculty of Education, Ain Shams University, Roxy, Cairo, Egypt. (September 2010 – Until now).

- Associate Professor in Environmental and Inorganic Chemistry, Department of Chemistry, University College in Mecca, Umm Alqura University, Saudi Arabia (September 2009 – 2015).
- Associate Professor in Environmental and Inorganic Chemistry, Department of Chemistry, Faculty of Education, Ain Shams University, Roxy, Cairo, Egypt. (September 2001 – August 2009).
- Assistant Professor in Environmental and Inorganic Chemistry, Department of Chemistry, Faculty of Science, United Arab Emirates University, Al-Ain , UAE. (September 1996 – August 2001).
- Lecturer in Environmental and Inorganic Chemistry, Faculty of Education, Ain Shams University, Roxy, Cairo, Egypt. (June 1992 – August 1996).
- Teaching Assistant in Chemistry, Department of Chemistry, Faculty of Science, McMaster University, Canada. (August 1986 – April 1992).
- Teaching Assistant in Chemistry, Department of Chemistry, Faculty of Education, Ain Shams University, Cairo, Egypt. (December 1981 – August 1986).

### AWARDS

*Ain Shams University Appreciation Award for the year 2018 in the field of basic sciences.*

*جامعة عين شمس التقديرية لعام 2018 في مجال العلوم الأساسية.*

### RESEARCH PROJECTS (المشروعات البحثية)

- تمويل من المجلس الأعلى للجامعات المصري "المشروعات – وحدة إدارة المشروعات مشروع لتطوير كليات التربية وصندوق مشروع تطوير التعليم العالي لعمل مشروع بحثي على: "تطوير الوعي البيئي من خلال مدرسي المستقبل بمصر" – بمبلغ 50.000 دولار أمريكي.
- تمويل مشروع بحثي من معهد البحوث العلمية وإحياء التراث الإسلامي للأبحاث بجامعة أم القرى بالمملكة العربية السعودية بمبلغ 149.800.00 ريال سعودي لعمل بحث بعنوان: "إزالة العناصر الثقيلة من مياه الصرف الصناعي باستخدام مشتقات الكيتوزان المستخرجة من القشريات لبحرية" – 2014.

- تمويل مشروع بحثي من مدينة الملك عبد العزيز للعلوم والتقولوجيا - - المملكة العربية السعودية بمبلغ 197.000.00 ريال سعودي لعمل بحث بعنوان:  
"تشبيد وقياس النشاط المضاد للسرطان لمتراكبات البلاطين الحديثة المتكونة من مركبات نيتروجينية تحتوي على سيلينيوم" - 2015.

### **ACTIVITIES**

- Training Courses in Micro-analyses in Chemistry (7<sup>th</sup> International Congress), Feb. 16 – March 4, 1985, Microanalytical Center at Cairo University, Cairo, Egypt.
- Workshop on the Technology and Operating Systems, May 11-14, 1996, Ain Shams University.
- Workshop on Examinations, December 15-17, 1996, UAE University, Al-Ain, UAE.
- Workshop on The University and Society (Faculty of Education Ehnancement Project Workshops), Ain Shams University, 4-5 December, 2004.
- Workshop on The Interactive Presentation Skills (Faculty of Education Ehnancement Project Workshops), 7-9 December, 2004.
- Workshop on The Management Skills (Faculty of Education Ehnancement Project Workshops), Ain Shams University, 11-13 December, 2004.
- Workshop on Evaluation the Student Skills (Faculty of Education Ehnancement Project Workshops), Ain Shams University, 24-27 September, 2005.
- Presenting Lectures to the High School Students on the Environmental Awareness, Ministry of Education 12/11/2006.
- Workshop on the Writing the Annual Faculty Self Study Report, Quality Assurance and Accreditation Center, Ain Shams University, 20/9/2006.
- Obtained the ICDL licence, Issued by the UNESCO Cairo, Office, in 12/10/2004.
- Collaborated with the Ministry of Education in preparing the first and second sessions of the Final Chemistry Examination of the General Secondary Education Certificate of the First and Second sessions, 2007.

### **PROFESSIONAL ORGANIZATION**

- ❖ Member, American Chemical Society.
- ❖ Member, Canadian Chemical Society.
- ❖ Member, Egyptian Syndicate of Scientific Professions.
- ❖ Member, National Protectorate Pioneers Society.

### **RESEARCH INTEREST AND AREA OF EXPERTISE**

- Synthetic chemistry including thermally unstable and air sensitive organic and inorganic materials and fluorine chemistry.
- Synthetic and characterization of the transition metal chemistry for having organic and inorganic ligands.
- Application of high resolution multi-nuclear magnetic resonance spectroscopy to solve structural problems in organic and inorganic chemistry.

- Application of IR and Raman spectroscopy to solve structural problems in organic and inorganic chemistry.
- Application of Thermal studies using TGA, DrTGA, DTA, DSC diagrams for inorganic materials.
- Application in the Magnetic susceptibility and molar electric conductivity measurements.

➤ المشاركة في نشر 64 أربعة وستون بحث وكتاب دولي ومؤتمر دولي في مجال الكيمياء البيئية وغير العضوية وأبحاث الحج بمكة المكرمة ، في العديد من المجالات الاقليمية والعالمية.

➤ تم نشر ستة كتب دولية بدار نشر ألمانية.

Lambert Academic Publishing, Saabruchen, Deutschland, Germany.

➤ تم نشر كتاب بمطبعة جامعة أم القرى بمكة المكرمة:

السلامة أولاً: معايير جديدة للأمن والسلامة في مختبرات العلوم للصفوف الدراسية بمرحلة التعليم الاساسي ، الطبعة الثالثة ، الترجمة بموافقة من الجمعية الكيميائية الأمريكية، مطبعة جامعة أم القرى (2015).

## **PUBLICATIONS:**

### **(A) Published Academic Books**

1. **Adel A.A. Emara**, Maher, El-Sabie, and Mohammed Abdel Tawab, Chitosan Derivatives: Chitosan derivatives preparation, thermal, spectral characterization, metals uptake and absorption isotherms; Lambert Academic Publishing, Saabrüchen, Deutschland, Germany, 2012.
2. **Adel A.A. Emara**, Hussein Seleem and Aml Madyan, Metal Complexes of Thiosemicarbazides: Synthesis, characterization and biological studies; Lambert Academic Publishing, Saabrüchen, Deutschland, Germany, 2012.
3. **Adel A.A. Emara**, Mona Saif and Hoda Hafiz, Titanium Dioxide Nanostructures: Production of renewable energy and industrial wastewater treatment; Lambert Academic Publishing, Saabrüchen, Deutschland, Germany, 2013.
4. Faisal A. Baghdadi, Abdel-Aziz S. El-Ahl, **Adel A.A. Emara**, Chitosan Based Nanostructures: Drug delivery shuttles able to cross biological barriers; Lambert Academic Publishing, Saabrüchen, Deutschland, Germany, 2013.
5. **Adel A.A. Emara**, Azza A.A. Abu-Husseini, Nelly H. Mahmoud, Solvatochromism in Metal Complexes, Lambert Academic Publishing, Saabrüchen, Deutschland, Germany, 2014.
6. Ali M. Taha, **Adel A.A. Emara** and Omima I. Adly, Inorganic Chemistry; Lambert Academic Publishing, Saabrüchen, Deutschland, Germany, 2015.
7. د. كين روي ، د. بيتر ماركو ، د. جيمس كوفمان – المراجعة العلمية لـ **عادل عباس عمارة**، السلامة أولاً: معايير جديدة للأمن والسلامة في مختبرات العلوم للصفوف الدراسية بمرحلة التعليم الاساسي ، الطبعة الثالثة ، الترجمة بموافقة من الجمعية الكيميائية الأمريكية، مطبعة جامعة أم القرى (2015).

(B) Academic Papers

- 1- Kamal A.R. Salib, Salah B. El-Maraghy, Shaker L. Stefan and Adel A.A. Emar, "Selenito Complexes. Normal Selenites of Transition Metals", J. Indian Chem. Soc., LXIII, 1021 (1986).
- 2- Kamal A.R. Salib, Anwar A. Ibrahim and Adel A.A. Emar, "Acetylacetonatoselenito Complexes of Cobalt(II) and Nickel(II)", J. Coord. Chem., 16, 89 (1987).
- 3- Kamal A.R. Salib, Salah B. El-Maraghy and Adel A.A. Emar, "Senito-Complexes: Mixed Ligand Complexes of Nickel(II) and Cobalt(III)", Egypt. J. Chem., 31, 67 (1988).
- 4- Adel A.A. Emar and Gary J. Schrobilgen, "Fluoro(hydrogen cyanide)xenon(II) Cation. Preparation of  $\text{HC}\equiv\text{N-XeF}^+\text{AsF}_6^-$ : A Multinuclear Magnetic Resonance and Raman Spectroscopic Study", Inorg. Chem., 31, 1323 (1992).
- 5- Adel A.A. Emar and Gary J. Schrobilgen, "The Fluoro(perfluoropyridine)-xenon(II) Cations,  $\text{C}_5\text{F}_5\text{N-XeF}^+$  and  $\text{CF}_3\text{C}_5\text{F}_4\text{N-XeF}^+$ : Novel Examples of Xenon-Nitrogen Bonding", J. Chem. Soc. Chem. Commun., 257 (1988).
- 6- Adel A. A. Emar and Gary J. Schrobilgen, "Fluoro(nitril)-xenon(II) Cations,  $\text{RC}\equiv\text{N-XeF}^+\text{AsF}_6^-$  (R = H,  $\text{CH}_3$ ,  $\text{CH}_2\text{F}$ ,  $\text{C}_2\text{H}_5$ ,  $\text{C}_2\text{F}_5$ ,  $\text{C}_3\text{F}_7$  or  $\text{C}_5\text{F}_5$ ); Novel Examples of Xenon-Nitrogen Bonds and  $^{129}\text{Xe-}^{13}\text{C}$ ,  $^{129}\text{Xe-}^1\text{H}$  and  $^{129}\text{Xe-}^{14}\text{N}$  Nuclear Spin-Spin Couplings", J. Chem. Soc., Chem. Commun., 1644 (1987).
- 7- Adel A.A. Emar, Saied M.E. Khalil and Kamal A.R. Salib, "Di-, Tri and Poly-Nuclear Transition Metal Complexes of 3,4-Diacetyl-2,5-hexanedione", J. Coord. Chem., 36, 289 (1995).
- 8- Saied M.E. Khalil, Adel A.A. Emar, Faten S.M. Abd El-Hameed and Ali Taha, "Preparation and Properties of Metal Complexes with New Schiff Bases Derived From 6-Methyl-3-formyl-4-hydroxy-2-(1H)-quinolone and *o*- and *p*-Phenylenediamine", J. Chem. Soc. Pak., 17, 170 (1995).
- 9- Saied M.E. Khalil, Mahmoud M. Mashaly and Adel A.A. Emar, "Copper(II), Nickel(II), Oxovanadium and Dioxouranium(VI) Complexes of Novel Asymmetric Tetradentate Schiff Bases Ligands Derived From 6-Methyl-3-formyl-4-hydroxy-2-(1H)-quinolone", Synth. React. Inorg. Met. -Org. Chem., 25, 1373 (1995).
- 10- Adel A.A. Emar, Faten S.M. Abd El-Hameed and Saied M.E. Khalil, "Intermediates in the Thermal Decomposition of Normal Copper(II), Nickel(II) and Cobalt(II) Selenites Dihydrates", Phosphorus, Sulfur and Silicon, 114, 1 (1996).
- 11- Adel A.A. Emar, Faten S.M. Abd El-Hameed and Saied M.E. Khalil, "Tellurito Complexes: Mixed Ligands Complexes of Cobalt(III), Phosphorus, Sulfur and Silicon, 112, 115 (1996).
- 12- Badr A. El-Sayed, Salah Shaaban, Mohamed M. Sallam and Adel A.A. Emar, "Temperature Dependence of the Electrical Conductivity of Salicylaldehyde Hydrazone and Its Transition Metal Complexes", J. Mater. Sci. Let., 15, 883 (1996).
- 13- Badr A. El-Sayed, Adel A.A. Emar, Faten S.M. Abd El-Hameed and S. Shaaban, "Temperature Dependence of the Electrical Conductivity of Selenous Acid and Its Transition Metal Selenites", Materials Letters, 27, 247 (1996).
- 14- Mostafa El-Behairy, Aisha I. Ibrahim, Adel A.A. Emar and Tarek A. Tawfic, "Synthesis, Physicochemical Studies and Solvatochromism of Some New Lithium  $\mu$ -(Tetraaryloxo)cobaltate(II) and Allied Complexes", J. Chem. Res. (S), 22 (1996).

- 15- Mostafa El-Behairy, Aisha I. Ibrahim, Adel A.A. Emara and Tarek A. Tawfic, "Synthesis and Physicochemical Studies of New Lithium Alkoxocobaltate(II) Complexes", J. Chem. Res. (S), 20 (1996).
- 16- Adel A.A. Emara, "Novel Asymmetric Tetradentate Schiff Base Ligands Derived From 6-Methyl-3-formyl-4-hydroxy-2-(1H)quinoline and Their Metal Complexes", Synth. React. Inorg. Met., -Org. Chem., 29, 87 (1999).
- 17- Adel A.A. Emara, Jeanette A. Krause-Bauer and Ahmed Galal, "Tetraammine(selenito-O,O')conaltate(III) Nitrate Monohydrate", Acta Cryst. (C), Cryst. Str. Commun., 56, 515 (2000).
- 18- Adel A.A. Emara, "Synthesis and Characterization of Some Mixed Ligand-Selenito and Tellurito Chromoium(III) Complexes", Phosphorus, Sulfur and Silicon, 177, 1201 (2002).
- 19- Badr A. El-Sayed, Mohamed M. Abo Aly, Adel A.A. Emara and Saied M.E. Khalil, "Synthesis and Structure Study of the Ligand *o*-OH Acetophenone Azine and Its Cu(II), Ni(II), Co(II) and Zn(II) Complexes", Vibr. Spec., 30, 93 (2002).
- 20- Saied M.E. Khalil and Adel A.A. Emara, "Asymmetric Schiff Base (N<sub>2</sub>O<sub>3</sub>) Complexes As Ligands Towards Mn(II), Fe(III) and Co(II), Synthesis and Characterization", J. Coord. Chem., 55, 17 (2002).
- 21- Azza A.A. Abu-Hussen and Adel A.A. Emara, "Metal Complexes of Some Thiocarbohydrazone Ligands: Synthesis and Structure", J. Coord. Chem., 57, 973 (2004).
- 22- Adel A. A. Emara, John F. Lehmann and Gary J. Schrobilgen, "A Laboratory-Scale Synthesis of High-Purity AsF<sub>5</sub> By Direct Fluorination of AsF<sub>3</sub>", J. Fluor. Chem., 126, 1373 (2005).
- 23- Hussein S. Sleem, Adel A.A. Emara and M. Shebl, "The Relationship Between Ligand Structures and their Co<sup>II</sup> and Ni<sup>II</sup> Complexes; Synthesis and Characterization of Novel Dimetric Co<sup>II</sup>/Co<sup>III</sup> Complexes of Bis(thiosemicarbazone)", J. Coord. Chem., 58, 1003 (2005).
- 24- Adel A.A. Emara and Azza A.A. Abou-Hussen, "Spectroscopic Studies of Bimetallic Complexes Derived From Tridentate or Tetradentate Schiff Bases of Some Di- and Tri-valent Transition Metals", Spectrochim. Acta (A); 64, 1010 (2006).
- 25- Adel A.A. Emara, Akila A. Saleh and Omima M.I. Adly, "Spectroscopic Investigations of New Binuclear Transition Metal Complexes of Schiff Bases Derived From 4,6-Diacetylresorcinol and 3-amino-1-propanol or 1,3-Diaminopropane", Spectrochim. Acta (A), 68, 592 (2007).
- 26- Adel A.A. Emara and Omima M.I. Adly, "Synthesis and Spectroscopic Studies of New Binuclear Transition Metal Complexes of Schiff Bases Derived From 4,6-Diacetylresorcinol", Trans. Met. Chem., 32, 889 (2007).
- 27- Adel A.A. Emara, Ali M. Ali, Ahmed F. Al-Asmy and El-Sayed M. Ragab, "Synthesis, Characterization and Oxygen Affinity of Mn(II), Co(II) and Ni(II) Complexes of Diethylenetriamine Schiff Bases", J. Coord. Chem., 61, 2968 (2008).
- 28- Adel A.A. Emara, Ali M. Ali, Ahmed F. Al-Asmy and El-Sayed M. Ragab, "Synthesis, Characterization and Oxygen Affinity of Manganese(II), Cobalt(II) and Nickel(II) Complexes of Ethylenediamine Schiff Bases", Inorg. Chem., An Indian J., 3, 69 (2008).
- 29- Adel A.A. Emara, Badr A. El-Sayed and El-Sayed A.E. Ahmed, "Syntheses, Spectroscopic characterization and Thermal Behavior on Novel Binuclear Transition Metal Complexes of Hydrazones Derived From 4,6-Diacetylresorcinol and Oxalylhydrazone", Spectrochim. Acta (A), in press.

- 30- **Adel A.A. Emar**, Hussein S. Sleem, Aml M. Madyan, Synthesis, spectroscopic investigations, and biological activity of metal complexes of N-benzoylthiosemicarbazide, *J. Coord. Chem.*, 62, 2569 (2009).
- 31- **Adel A.A. Emar**, "Structure, Spectral and Biological Studies of Binuclear Tridentate Metal Complexes of N<sub>3</sub>O Schiff Base Ligand Synthesized From 4,6-Diacetylresorcinol", *Spectrochim. Acta (A)*, 77, 117 (2010).
- 32- **Adel A.A. Emar**, Azza A.A. Abu-Hussein, Ahmed A. Taha and Nelly H. Mahmoud, "Spectroscopic, Solvent Influence and Thermal Studies of Ternary Copper(II) complexes of Diester and Dinitrogen Base Ligands", *Spectrochim. Acta (A)*, 77, 594 (2010).
- 33- **Adel A.A. Emar**, Mohamed A. Tawab, M.A. El-ghamry and Maher Z. Elsabee, "Metal Uptake by Chitosan Derivatives and Structure studies of the Polymer Metal Complexes", *Carbohydrate Polymers*, 83, 192 (2011).
- 34- A.I. Mosa, **Adel A.A. Emar**, J.M. Yousef and S.S. A.A. Saddiq, "4-Hydroxycoumarin-3-thiocarbohydrazone: Pharmacodynamic of Co(III) on rats and antimicrobial activity", *Spectrochim. Acta (A)*, 81, 35 (2011).
- 35- **Adel A.A. Emar** and Samah H. Abdel-Ghani, Food management in the pilgrimage in line with the rationalization of consumption and preserving the environment in Islam, *Pedagogue*, 43, Part 2, July 2013.
- أ.د. عادل عباس عمارة**، و د. سماح محمد سامي حمدان، و د. نجاة مليباري، "إدارة الغذاء في الحج بما يتواءم مع ترشيد الإستهلاك والحفاظ على البيئة في الإسلام" عالم التربية - العدد 43 - الجزء 2 (2013).
- 36- Omima M.I. Adly and **Adel A.A. Emar**, "Spectroscopic and biological studies of new binuclear metal complexes of a tridentate ONS hydrazone ligand derived from 4-amino-6-methyl-3-yljioxo-3,4-dihydro-1,2,3-triazin-5(2H)one and 4,6-diacetylresorcinol, 132, 91 (2014).
- 37- Ali Taha, **Adel A.A. Emar**, Mahmoud M. Mashaly, Omima M.I. Adly, "Spectral characterization, molecular modeling and antimicrobial studies on hydrazine metal complexes of 5-acetyl-4-hydroxy-2H-1,3-thiazine-2,6(3H)dione and S-methyldithiocarbazate", *Spectrochim Acta (A)*, 130, 429 (2014).
- 38- **Adel A.A. Emar**, Ali M. Ali, Ahmed F. Al-Asmy and El-Sayed M. Ragab, "Investigation of the oxygen affinity of manganese(II), cobalt(II) and nickel(II) with some tetrahedral Schiff bases", *Journal of Saudi Chemical Society*, 18, 762, (2014).
- 39- **Adel A.A. Emar**, Ali M. Taha, Mahmoud M. Mashal and Omima M.I. Adly, "Synthesis, spectroscopic, thermal and anti-microbial studied of transition metal complexes of hydrazine derived from 4,6-diacetylresorcinol and S-methyldithiocarbazate", 6, 107 (2015).
- 40- H.M. Al-Saidi and **Adel A.A. Emar**, The recent development in dispersion liquid-liquid microextraction for preconcentration and determination of inorganic analysis, *Journal of Saudi Chemical Society*, 18, 745, (2014).
- 41- Sami A. Al-Harbi, Mahmood S. Bashandy, Hamed M. Al-Saidi, **Adel A.A. Emar** and Tarek A.A. Mousa Synthesis, spectroscopic properties, molecular docking, anti-colon cancer and anti-microbial studies of some novel metal complexes for 2-amino-4-phenylthiazole derivative, *Spectrochimica Acta (A)*, 145, 425 (2015).
- 42- Magdy A. Ibrahim, **Adel A.A. Emar**, A. Taha, Omima M.I. Adly, A.I. Nabeel, and Nesma Salah, Binary and ternary copper(II) complexes with 6-ethyl-4-hydroxy-2,5-dioxo-5,6-dihydro-2H-pyrano[3,2 c]qui-nol-ine-3-carboxaldehyde: Synthesis, spectral, thermal, molecular modeling, antimicrobial and antitumor studies, *Journal of Molecular Structure*, 1226 (2021) 129358.

- 43- Sami A. Al-Harbi, Hamed M. Al-Saidi, Khaled F. Debbabi , Esam S. Allehyani, Alqorashi A. Alqorashi, and Adel A.A. Emara, Design and anti-tumor evaluation of new platinum(II) and copper(II) complexes of nitrogen compounds containing selenium moieties, *Journal of Saudi Chemical Society*, 24 (2020) 982-995.
- 44- Magdy A. Ibrahim, Omima M.I. Adly, A.A.A. Emara and Nesma Salah, Chelating Behavior of Bidentate Oxygen Ligands: Synthesis of Metal Complexes Derived from Bidentate O2 Donor Ligands, *J. Pharm. Appl. Chem.*, 5(2), (2019) 85-96.
- 45- Magdy A. Ibrahim, Adel A. A. Emara, Ali Taha, Omima M. I. Adly, Asmaa I. Nabeel, Nesma Salah; Novel metal complexes with pyrano[3,2-c]quinoline-3-carboxaldehyde: Synthesis, spectroscopic, molecular modeling, QSAR, antimicrobial, and antitumor studies, *Applied Organometallic Chemistry*, 2021 (2021) 1-17.
- 46- Mariam G. Rizk, Adel A .A. Emara and Nelly H. Mahmoud, Spectroscopic studies, DFT calculations, thermal analysis, anti-cancer evaluation of new metal complexes of 2-hydroxy-N-(4-phenylthiazol-2-yl)benzamide, *J. Mol. Str.*, 1246 (2021) 131143.
- 47- Nelly H. Mahmoud, Adel A.A. Emara, Wolfgang Linert, A. A. Abou-Hussein, Spectroscopic Studies, Antimicrobial and Anti-tumor Evaluation of Metal Complexes of 1,1,1-Trifluoro-4-((4-phenylthiazol-2-yl)imino)pent-2-en-2-ol, *Applied Organometallic Chemistry*, (2022) in press.

(C) **CONFERENCES:**

1. Adel A.A. Emara, Akila A. Saleh and Omima M.I. Adly, "Physicochemical Studies of new binuclear transition metal complexes of Schiff bases Derived From 4,6-Diacetylresorcinol and 3-Amino-1-propanol or 1,3-Propylenediamine., Biannual Conference on Chemistry, Chemistry of Better Future, Cairo University, Cairo, March 3 – 6, 2006.
2. Adel A.A. Emara, "Transition Metal Complexes of a Novel Schiff Base Ligand Derived From 4,6-Diacetylresorcinol and Diethylene-Triamine: Synthesis and Characterization ", The Egyptian First International Conference in Chemistry, (the 17<sup>th</sup> Egyptian Chemical Conference), 11-14<sup>th</sup> September, 2006, Sharm El-Sheikh, Egypt.
3. Adel A.A. Emara and Ali M. Taha, "Spectroscopic Studies on Solvatochromic of Mixed-Ligand Copper(II) Complexes Containing 2-Acetylbutyrolactone with Dinitrogen Bases", The 8<sup>th</sup> International Conference on Chemistry and Its Role in Development, 8<sup>th</sup> ICCRD April 2005), Mansoura University, Egypt.
4. Adel A.A. Emara, Badr A. El-Sayed and Hassan S. Adel-Satter, "Synthesis and Characterization of Transition Metal Complexes of Hydrazones Derived from 4,6-Diacetylresorcinol, Biannual Conference on Chemistry, Chemistry of Better Future, Cairo University, Cairo, March 1 – 4, 2004.
5. Adel A.A. Emara and Azza A.A. Abu-Hussen, "Physicochemical studies of Binuclear Complexes Derived From Thiocarbohydrazone Ligands", The 7<sup>th</sup> International Conference on Chemistry and Its Role in Development (7<sup>th</sup> ICCRD April 2003), Mansoura University, Mansoura, Egypt.
6. Adel A.A. Emara, The Second UAE University Symposium on Materials Science, "Thermal Behaviour and Structure of Normal Copper(II), Nickel(II) and Cobalt(II) Selenite Dihdrates, Al-Ain, United Arab Emirates, Nov. 24 – 27, 1998.
7. Adel A.A. Emara and Gary J. Schrobilgen, "The Lewis Acid-Base Adducts  $RC\equiv N-XeF^+AsF_6^-$  (R = H, CH<sub>3</sub>, C<sub>2</sub>H<sub>5</sub>, *n*-C<sub>3</sub>H<sub>7</sub> and *n*-C<sub>4</sub>H<sub>9</sub>) and Their Solvolytic Behaviour in Anhydrous Hydrogen Fluoride", The 74<sup>th</sup> Canadian Chemistry

- Conference and Exhibition, (T. Birchall Memorial Symposium), Hamilton, Ontario, June 2 – 6, 1991.
8. Gary J. Schrobilgen, Adel A.A. Emara, Alison Paprica and Jeremy C.P. Sanders, "New Synthetic Initiation in Noble-Gas Chemistry, 1989 Pauling Award Symposium, Portland, Oregon, Nov. 1, 1989.
  9. Adel A.A. Emara, Alison Paprica, Jeremy C.P. Sanders and Gary J. Schrobilgen, "Novel Bonding Situation in Noble-Gas Chemistry, 9<sup>th</sup> European Symposium on Fluorine Chemistry, Leicester, England, September 4 – 5, 1989.
  10. Adel A.A. Emara, Alison Paprica, Jeremy C.P. Sanders and Gary J. Schrobilgen, "Novel Bonding Situation in Noble-Gas Chemistry", Symposium Honoring R.J. Gillespie, McMaster University, Hamilton, Ontario, June 11 – 13, 1989.
  11. Adel A.A. Emara and Gary J. Schrobilgen, "Synthesis and Raman Spectral Studies of New Xenon Compounds Containing Xenon-Nitrogen Bonds, Seventh Annual Chemistry Graduate Student's Symposium, SUNY at Buffalo, New York, May 24 – 25, 1989.
  12. Adel A.A. Emara, Dian Hutchison, Alison Paprica, Jeremy C.P. Sanders and Gary J. Schrobilgen, "Synthesis and Structural Characterization of New High-Valent Inorganic Fluorine Compounds and Their Oxidizing Properties", Third High Energy Density Materials Contractor's Conference, U.S. Air Force Sponsored, New Orleans, Louisiana, March 12 – 15, 1989.
  13. Adel A.A. Emara and Gary J. Schrobilgen, "Covalent Derivatives of New Noble-Gas Compounds; Novel Examples of Xenon-Nitrogen and Krypton-Nitrogen Bonds", Sixth Annual Chemistry Graduate Student's Symposium, SUNY at Buffalo, New York, May 25 – 26, 1988.
  14. Adel A.A. Emara and Gary J. Schrobilgen, "Synthesis of New Xenon and Krypton Compounds Involving Novel Bonding Situation", High Energy Density Materials Contractor' Conference, U.S. Air Force Sponsored, Newport Beach, California, Feb. 28, March 2, 1988.
  15. Adel A.A. Emara and Gary J. Schrobilgen, "New Xenon-Nitrogen Bond Compounds and Attempts to Form Xenon-Carbon Bonds", The 194<sup>th</sup> National A.C.S. Meeting, New Orleans, Louisiana, August 30 – September 4, 1987.

**References on request**

**Reviewer of papers for international journals:**

- 1- Spectrochimica Acta, Part (A).
- 2- Journal of Coordination Chemistry.
- 3- Journal of Molecular Structure.
- 4- Journal of Saudi Chemical Society.