

GHASSAN YOUNES

A. BACKGROUND INFORMATION

Personal Information

Date of Birth: December 15, 1967
Nationality: Lebanese
Marital Status: Married with three children

Education

Ph.D. in Materials Chemistry, 1995, Université Claude Bernard-Lyon 1, Lyon – France
Dissertation: MOCVD of InP – Epitaxy using a new precursor of InP – Study of InP/InP interface and surface defects. Research advisor: Prof. Yves Monteil.

M.Sc. In Chemistry (Physicochemical Analysis, DEA), 1992, Université Claude Bernard-Lyon 1, Lyon – France**. Thesis:** Application of the pyrolysis for the characterization of the plant skeleton and the degree of maturation of the kerosene. Research advisor: Prof. Maurice Bigois.

B. Sc. in Chemistry, 1991, Université Claude Bernard-Lyon 1, Lyon – France**.**

Work Experience

Dean, 1/9/2023 – Present
Faculty of Science, Beirut Arab University, Debbieh, Lebanon.

Head of Chemistry Department, 5/9/2019 – 31/8/2023
Faculty of Science, Beirut Arab University, Debbieh, Lebanon.

Acting Dean, 1/4/2014 – 26/5/2014
Faculty of Science, Beirut Arab University, Debbieh, Lebanon.

Assistant Dean, 1/6/2012 – 31/8/2018
Faculty of Science, Beirut Arab University, Debbieh, Lebanon.

Chairman of Chemistry Department, 1/9/2011 – 1/6/2012
Faculty of Science, Beirut Arab University, Debbieh, Lebanon.

Professor in Physical Chemistry, 9/4/2010
Chemistry Department, Faculty of Science, Beirut Arab University, Debbieh, Lebanon.

Associate Professor in Physical Chemistry, 2004 – 2010
Chemistry Department, Faculty Science, Beirut Arab University, Debbieh, Lebanon.

Research Associate Professor, Summer 2004-2005
Université Claude Bernard-Lyon I, Lyon-France
Laboratoire des Multimatériaux et Interfaces, (UMR 5615).

Assistant Professor in Physical Chemistry, 1998 – 2004
Chemistry Department, Faculty Science, Beirut Arab University, Debbieh, Lebanon.

Research Assistant Professor, Summer 2000-2001
Université Claude Bernard-Lyon I, Lyon-France
Laboratoire des Multimatériaux et Interfaces, (UMR 5615).

Assistant Professor in Chemistry**,** 1996 – 1997
Chemistry Department, Faculty of Science, Lebanese University, Hadath, Lebanon.

Teaching Assistant, 1992 – 1995
Université Claude Bernard-Lyon I, Lyon-France.

Current position

Dean of Faculty of Science
Beirut Arab University, Debbieh Campus
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B. ADMINISTRATION AND PROFESSIONAL ACTIVITIES

Responsibilities and achievements

- Member of the Faculty Council (1998 - 2023).
- Secretary of the Faculty Council (1999 - 2011)**.**
- Member of the University Strategic Committee (2007).
- Member of the organizing committee of a workshop at Beirut Arab University on the Quality Assurance in Higher Education in collaboration with the UNESCO and many local universities (March, 2007).
- Member of the Scientific Committee of the Friends of Ibrahim Abed El-Al (2008 - present)
- Representative of Beirut Arab University in Tempus project funded by the European Community on International Relations (2009- 2011).
- Chairman of the Quality Assurance Unit at the Faculty of Science (2009- 2011).
- Member of the Quality Assurance Unit at Beirut Arab University (2010 - 2013)**.**

- Chairman of the organizing committee of a national conference organized by the Association of Universities in Lebanon in Cooperation with the EU Tempus HERE, entitled: Towards a Comprehensive System for Quality Assurance of Higher Education in Lebanon (2011).
- Member of Audit Committee for Notre Dame University – Deir El-Qamar Branch (2011).
- Member of the University's TEMPUS Committee (2011).
- Member of the organizing committee of Beirut Arab University research day 2012.
- Head of Chemistry Department (1/9/2011-1/6/2012).
- Assistant Dean, Faculty of Science (1/6/2012-31/8/2018).
- Member of the organizing committee of Beirut Arab University research day 2013.
- Member of the Inter-University Cooperation Committee of the Association of Universities in Lebanon (2014 - 2017).
- Participated in the preparation of the Foundation Program at the university (2014).
- Member of the strategic planning committee for the Faculty of Science, Beirut Arab University (2014).
- Chairman of committee for the curricula modernization of all undergraduate and graduate programs at the faculty of science for the academic year 2014-2015.
- Member of specialized technical committee (Ministry of Education and Higher Education) for the examination of new programs at some Lebanese Universities.
- Developing the University and Faculty of Science catalogues and brochures.
- Participated in relocation process to a new Debbieh campus.
- Participated in the development of Chemistry department website.
- Modernized the instrumentation and chemistry laboratories.
- Preparing the accreditation of Chemistry program.
- Involved in recruiting full-time and part-time faculty and lab personnel.
- Chairman of committee for the preparation of the Food analysis and Safety program.
- Communicate with Alumni.
- Strengthen the relationship with the Lebanese community.
- Main contributor to the formation of the advisory board committee at the Faculty of science.
- Chairman of Chemistry Department, 5/9/2019 – 31/8/2023.
- Dean, Faculty of Science, BAU, 1/9/2023 – Present.

C. TEACHING

I taught the following undergraduate and graduate courses for several times through the period between 1998 – Present:

Undergraduate: Principles of Chemistry, Analytical Chemistry, Solid State Chemistry, Materials Science, Chemical Kinetics, Water Analysis, Nuclear and Radiochemistry, General Chemistry for Biology, Health Science, Dentistry, Pharmacy and Engineering Students, Physical and Analytical Chemistry for Biology Students.

Graduate: Advanced Analytical Chemistry, Advanced Topics in Analytical Chemistry, Advanced Topics in Physical Chemistry, Advanced Characterization Techniques, Advanced Project in Physical chemistry, Advanced Project in Analytical chemistry, Advanced Physical Chemistry for Pharmacists.

D. RESEARCH

Research Interest

- Growth and characterization of semiconductor materials.
- Corrosion analysis and protection.
- Green synthesis of nanoparticles and their application.
- Water treatment and Analysis.
- Ab-initio calculation and spectroscopic studies.

Research Collaborations

1. **Université Claude Bernard-Lyon I, Lyon-France,** Laboratoire des Multimatériaux et Interfaces, UMR 5615**.**
2. **National Council for Scientific Research (CNRS) - Lebanese Atomic Energy Commission (LAEC), Beirut-Lebanon,** Analysis of Pesticides and Organic Pollutants Laboratory (LAPPO) and Ion Beam Analysis Laboratory (IBA).
3. **Lebanese University - Faculty of Sciences I**, **Hadath, Lebanon,** Laboratory of Analysis of Organic Compounds (509).
4. **Alexandria University – Faculty of Science, Egypt.**
5. **Lebanese Agricultural Research Institute (LARI), Fanar, Lebanon.**
6. **Doctoral School in Science and Technology (EDST), Hadath, Lebanon.**

Graduate Supervision

I supervised a number of M.Sc. and Ph.D. students at Beirut Arab University in the following areas of research:

1. Environmental Remediation of Heavy Metals from Industrial Wastewater Using Natural Plant Extract. **(M.Sc.)**
2. Ab initio calculations on aluminum-transition metal (Zn, Cd, Hg) molecules including the spin-orbit coupling effect. **(Ph.D.)**
3. Green Synthesis of Silver nanoparticles with Algae and their performance in wastewater treatment. **(M.Sc.)**
4. Synthesis and Characterization of ZnO Nanoparticles Doped with Metals and rare Earth Elements for Various Applications. **(Ph.D.)**
5. Electronic Structure with Spin-Orbit Calculations of the LaS Molecule. **(M.Sc.)**
6. Theoretical study of hydrides of elements of groups III and VII. **(Ph.D.)**
7. Preparation and characterization of nano -Ferrite for different applications. **(Ph.D.)**
8. Development of High-Sensitivity Gas Sensors Based on Different Nanoscaled Materials. **(Ph.D.)**
9. Theoretical ab initio studies of the hydrides of halides and chalcogenides. **(Ph.D.)**
10. Electronic Structure studies with laser Cooling and Theoretical Spectra for Molecules of Transition Metals and groups IV and V. **(Ph.D.)**
11. Assessment of the Potential of Phosphate SolubilizingMicroorganisms to Bioremediate the Lebanese Soil PostSeptember 2024 War. **(Ph.D.)**
12. Preparation and Characterization of Nanoferrites for Electrochemical Studies and Water Treatment. **(Ph.D.)**
13. Green Preparation of Zinc Oxide and Silver-Doped Zinc Oxide Nanoparticles For Different Environmental Applications. **(Ph.D)**
14. Improvement of the physical properties of capped tri metal nanoferrite for dyes removal. **(Ph.D.)**
15. Physiochemical and microbial studies of the marine environment and fish in Jiyyeh littoral-Lebanon. **(Ph.D.)**
16. Theoretical Electronic Structure and Laser cooling of the AtH molecule. **(M.Sc.)**
17. Chemically Modified Polymers as Corrosion Inhibitors. **(Ph.D.)**
18. Preparation and Characterization of Copper Oxide Nanoparticles for Anticorrosion Applications. **(M.Sc.)**
19. Ab initio calculations on aluminum-transition metal (Zn, Cd, Hg) molecules including the spin-orbit coupling effect. **(Ph.D.)**
20. Synthesis of CuO nanoparticles doped by Mg for different applications. **(M.Sc.)**

21. Inhibition efficiency of green synthesized silver nanoparticles on corrosion of mild steel in acidic medium. **(M.Sc.)**

22. Innovative formulation for Control of Scale Deposition and Corrosion in Industrial Cooling Water Systems. **(Ph.D.)**

23. Preparation, Characterization, Physical Properties and Photocatalytic Activity Studies of Nanocomposites. **(Ph.D.)**

24. Green Synthesis of Zinc Oxide and Silver-Doped Zinc Oxide Nanoparticles For Different Environmental Applications. **(Ph.D.)**

25. Quantification of Heavy Metals in Potatoes Grown on Soil Irrigated from Upper Litani River Basin Water in Bekaa, Lebanon. **(M.Sc.)**

26. Eco-friendly Nanoparticles for Corrosion Protection and Degradation of Environmentally Hazardous Dyes. (Ph.D.)

27. Physiochemical and microbial studies of the marine environment and fish in Jiyyeh littoral-Lebanon. **(Ph.D.)**

28. Electronic structure of transition-metal lithides and their ions. **(Ph.D.)**

29. Theoretical calculations for a transition-metal halide molecule. **(M.Sc.)**

30. Evaluation of the corrosion inhibition of different metals in diesel biodiesel blend. **(Ph.D.)**

31. Preparation and Characterization of Modified Nano-Materials for the Removal of Heavy Metals from Lebanese Industrial Water. **(Ph.D.)**

32. Preparation and Characterization of New Generation Thermoluminescent Materials for Application in Dosimetry. **(Ph.D.)**

33. Inhibition of steel corrosion in industrial acid cleaning systems using organic compounds. **(Ph.D.)**

34. Design of Novel Nanoscopic Metal Oxide Materials for Artificial Photosynthesis and Photocatalytic Degradation of Dyes. **(Ph.D.)**

35. Photocatalytic Degradation of Pesticides in Food Using Metal oxide Clusters. **(Ph.D.)**

36. Transition Metal Complexes for Treatment of Heavy Metals, Dyes, and Pesticides in Water. **(Ph.D.)**

37. Assessing drinking water quality from point of collection to point of use in Saida-Lebanon and its surrounding areas. **(M.Sc.)**

38. Analytical Strategies for the Determination of Polycyclic Aromatic Hydrocarbons in the Meat Consumed in Lebanon. **(Ph.D.)**

39. Physiological and Biochemical Changes of Some Lebanese Medicinal Plants Cultivated Under Drought Stress. **(Ph.D.)**

40. Monitoring of Heavy Metals and Microorganisms in Fish Collected from Tripoli El-Mina. **(Ph.D.)**

41. Evaluation of the Characteristics of X Ray Beams used for Calibration of Dosimeters in the SSDL. **(Ph.D.)**

42. Monitoring of Pesticide Residues in Bovine Milk in Lebanon. (**M.Sc.)**

43. Physico-chemical Characteristics and Microbiological Levels in Various Drinking Water Sources of Iqlim Al-Kharroub in South Western Lebanon. (**M.Sc.)**

44. Electronic structure with dipole moment calculation of III-V group molecule. (**M.Sc.)**

45. Effect of Praseodymium Element on the Electrical and Magnetic Properties of Nano-ferrite Samples. **(M.Sc.)**

46. Synthesis, Characterization, and Anticancer Activity of Ruthenium and Platinum Complexes. **(Ph.D.)**

47. Theoretical Studies of a Magnesium Mono-Halide Compound. (**M.Sc.)**

48. Theoretical Calculations of Electronic Structure with Vibration Rotation Studies of Alkaline-Earth Chalcogenide. **(Ph.D.)**

49. Environmental and Anthropogenic Effects on Radiocarbon Distribution in Lebanon. **(Ph.D.)**

50. Study of Some Green Inhibitors for Controlling the Corrosion of Steel in Acidic Solutions. **(Ph.D.)**

51. Theoretical Calculations of Alkaline Earth Oxides and their Applications in Electronic and Optoelectronic with Rovibrational Studies. **(Ph.D.)**

52. Electronic Structure of Transition Metals Sulfide. **(Ph.D.)**

53. Electronic Structure and Spectroscopic Studies of Diatomic Compounds Containing Silicon Atom. **(Ph.D.)**

54. Theoretical Calculations of Electronic Structure with Vibration Rotation Studies of Alkaline-Earth Halides. **(Ph.D.)**

55. Electronic Structure and Rovibrational Studies of Diatomic Zinc Compounds. **(Ph.D.)**

56. Theoretical Studies of a Diatomic Floride of Alkaline-Earth Compound. (**M.Sc.)**

57. Electronic Structure of Diatomic Helium Compounds. **(Ph.D.)**

58. Theoretical Studies of a Diatomic Compound of Mercury. (**M.Sc.)**

59. Studies on the Inhibition of the Acidic Corrosion of Steel by Some Nitrogen Containing Compounds. (**M.Sc.)**

60. Evaluation of Some Plant Extracts as Environmentally Friendly Corrosion Inhibitors. (**M.Sc.)**

61. Analysis of Pesticides Residues of Ground Water in South Lebanon by GC-MS. (**M.Sc.)**

62. Electronic Structure and Rovibrational Study of the Molecule LiF. (**M.Sc.)**

63. Experimental and Theoretical Spectral Studies of Some Pyrimidine Derivatives. (**M.Sc.)**

64. Solvent Effects on the Kinetics of Aquation of Some Metal Complexes in Dicarboxylate Media. (**Ph.D)**

65. Solvent Effects on the Kinetics of Solvolysis of Cobalt(III) Complexes in Binary Organic Aqueous Media. (**M.Sc.)**

66. Spectrometric Kinetic Study of Solute-Solvent Interactions for the Solvolysis of Cobalt(III) Complexes in Binary Organic Aqueous Mixtures. (**M.Sc.)**

67. Analysis of Some Selected Drugs Containing Nitrogen Atom. (**M.Sc.)**

68. Analysis of some selected drugs containing heteroatoms. (**M.Sc.)**

69. New Approach in the Perturbation Theory for the Representation of the Eigenvalue and Eigenfunction. (**M.Sc.)**

70. Analysis of some antihyperlipidemic drugs. (**M.Sc.)**

71. Potential Energy Curves and Spectroscopic Calculation of the Electronic States of the Molecule LiRb. (**M.Sc.)**

72. Direct Method for the Synthesis of Penta-Substituted Guanidine Derivatives by Using Chloroformamidinium Salts. (**M.Sc.)**

73. Modeling Chlorine Propagation in Water Networks Northern Suburb of Beirut-Motaileb Rabieh Region. (**M.Sc.)**

74. Kinetics of Aquation of Some Cobalt(III) Complex Ions in Mixed Solvents. (**M.Sc.)**

75. Experimental and Theoretical Spectral Studies of Some Heterocyclic Compounds. (**M.Sc.)**

76. Thermodynamic Behavior of Some Ion Pairs in Mixed Solvents. (**M.Sc.)**

Funded Research Projects

1. Member in a research project supported by "**Programme CEDRE**" between Lebanese Atomic Energy Commission (CLEA-CNRS) (Lebanon) and CNRS-Strasbourg (France). **Title of the project :** Performance et validation des méthodes d'analyse nucléaires auprès de l'accélérateur de particules du CLEA dans le domaine des détecteurs nucléaires à semi-conducteurs. (2001-2006)

2. Principal Member in a research project supported by "**Programme CEDRE**" between Beirut Arab University, CLEA-CNRS (Lebanon) and LMI- Université Claude Bernard-Lyon1 (France), **Title of the project :** Développement des techniques d'analyse par faisceaux d'ions accélérés pour la détermination de dopants légers (Al, B, P et N) dans des couches minces de SiC. (2005-2007)

   Award: medal of gold for a better scientific project during the conference organized on the occasion of the tenth birthday of the **"Programme CEDRE"**. Beyrouth, grand Sérail, du 31

Mai au 2 Juin 2006.

Left hand page: Bernadette Abi-Saleh (Coordinatrice du Programme CEDRE au Liban), Bernard Emié (Ancien ambassadeur de France **à Beyrouth), Ghassan Younes (Professeur Associé, BAU), Gabriel Ferro (Directeur de recherche UCBLI-LMI), Khaled Kabbani (Ancien Ministre de l'éducation et de l'enseignement supérieur), Jacques Valade (Président de la commission des affaires culturelles du Sénat et président du Programme CEDRE)**



Ghassan Younes and Gabriel Ferro winners of the best scientific project in the field of "Sciences de l'ingénieur" at the 10th birthday of the Programme CEDRE at grand Sérail in Beirut (31 May-2 June 2006)

3. Member in a Research project supported by "**CNRS-Lebanon**"

   Title of the project: Studies on Some Lebanese Herbs Extracts as New Type of Environmentally Friendly Corrosion Inhibitors. (2013-2015)

Publications

Refereed International Journal Articles

1. V. Merlin, T. Minh Duc, G. **Younes**, Y. Monteil, V. Soulière, P. Regreny, "Misorientation effect on the monolayer terrace topography of (100) InP substrates annealed under a PH_3/H_2 ambient and homoepitaxial layers grown by metal organic chemical vapor deposition", *Journal of Applied Physics, 78(٨), pp. 5048-5052 (1995).*
2. M. Bouslama, Y. Monteil, G. **Younes**, C. Jardin, M. Ghamia, "Effects of the electron beam on InP(100)", *Vacuum, 47(1), pp. 27-32 (1996).*
3. M. Korek, G. **Younes** , A. R. Allouche, "Theoretical study of the low-lying electronic states of the molecular ion $KRb^{+"}$, *International Journal of Quantum Chemistry, 92(4), pp. 376-380 (2003).*
4. Ghassan **Younes**, Gabriel Ferro, Christophe Jacquier, Jacques Dazord, Yves Monteil, "Nature effect of the gas during high temperature treatments of 4H-SiC substrates", *Applied Surface Science, 207(1-4), pp. 200-207 (2003).*
5. C. Jacquier, G. Ferro, F. Cauwet, J. C. Viala, G. **Younes**, Y. Monteil, "On the growth of 4H-SiC by low temperature liquid phase epitaxy in Al rich Al-Si melts", *Journal of Crystal Growth, 254(1-2), pp. 123-130 (2003).*
6. M. Roumié, M. Hageali, K. Zahraman, B. Nsouli, G. **Younes**, "Characterization of electroless Au, Pt and Pd contacts on CdTe and ZnTe by RBS and SIMS Techniques", *Nuclear Instruments and Methods B, 219/220, pp. 871-874 (2004).*

7. Gehan M. El-Subruiti, Ghassan O. **Younes**, Farah S. Zeitouni and Mohamed F. Amira, "Effect of Solvent and Structure on the Kinetics and Mechanism of the Aquation of Bromopentaamine Cobalt(III) Complex in Binary Aqueous Mixtures", *International Journal of Chemical Kinetics, 36, pp. 494-499 (2004).*
8. A. Hasanein, G. El-Subruiti, G. **Younes** and M. Srour, "Spectral studies on some pyrimidime derivatives in different solvents", *Journal of Solution Chemistry, 33 (12), pp. 1481-1499 (2004).*
9. M. Korek, G. **Younes**, "Electronic Transition Moment With Spin-Orbit Coupling Of The Molecular Ion KRb^{+}", *International Journal of Quantum Chemistry, 101(1), pp. 84-89 (2005).*
10. M. Soueidan, G. Ferro, J. Dazord, Y. Monteil, G. **Younes**, "Surface preparation of α-SiC for the epitaxial growth of 3C–SiC", *Journal of Crystal Growth, 275, pp. 1011-1016 (2005).*
11. Ayman El-Faham, Mohamed Chebbo, Mohamed Abdul-Ghani and Ghassan **Younes**, "Chloroformamidinium Salts: Efficient Reagents for Preparation of 2-Aminobenzoimidazole, 2-Aminobenzoxazole, and 2-Aminobenzothiazole Derivatives", *Journal of Heterocyclic Chemistry, 43, pp. 1-8 (2006).*
12. M. Soueidan, G. Ferro, B. Nsouli, F. Cauwet, J. Dazord, G. **Younes** and Y. Monteil, "Effect of growth parameters on the heteroepitaxy of 3C-SiC on 6H-SiC substrate by chemical vapor deposition", *Materials Science and Engineering B, 130, pp. 66-72 (2006).*
13. M. Soueidan, G. Ferro, B. Nsouli, F. Cauwet, L. Mollet, C. Jacquier, G. **Younes**, Y. Monteil, "Low temperature homoepitaxial growth of α-SiC on on-axis (0001) substrate by Vapor-Liquid-Solid mechanism", *Journal of Crystal Growth, 293(2), pp. 433-437 (2006).*
14. Gehan M. El-Subruiti, Ghassan O. **Younes**, Farah S. Zeitouni, Mohamed F. Amira "Spectrometric Study of Solute–Solvent Interactions for the Solvolysis of Chloropentaamine Cobalt(III) Complex in Binary Aqueous Mixtures", *International Journal of Chemical Kinetics, 40(7), pp. 416-422 (2008).*
15. Ghassan **Younes**, "Thermodynamic studies of dissociation reactions of some dicarboxylic acids in 20% (w/w) acetonitrile – water mixture", *Journal of Chemical Research, Issue 8, pp. 444-449 (2008).*
16. M. Korek, G. **Younes** and S. Al-Shawa, "Theoretical Calculation of the Electronic Structure of Molecule LiRb Including the Spin-Orbit Interaction", *Journal of Molecular Structure: THEOCHEM 899, pp. 25-31 (2009).*
17. Gehan El-Subruiti, Ghassan **Younes** and Manal Jaber, "Kinetic Studies of Solute-Solvent Interactions in the Solvolysis of Trans-$[Co(4\text{-tert-butylpyridine})_4Cl_2)ClO_4$ in Organic-Aqueous Mixtures", *Progress in Reaction Kinetics and Mechanism Vol. 36, pp. 73–83 (2011).*
18. Farah Samih Zeitouni, Gehan Moustafa El-Subruiti, Ghassan Omar **Younes** and Mohammad Fawzi Amira, "Studies on ion-pairing effects of the kinetics of aquation of bromopentaammine cobalt(III) complex in malonate media", *European Journal of Chemistry Vol 2 (4), pp. 489-494 (2011).*
19. Ghassan **Younes**, Gabriel Ferro, Maher Soueidan, Arnaud Brioude, Veronique Souliere, François Cauwet, "Deposition of nanocrystalline translucent h-BN films by chemical vapor deposition at high temperature", *Thin Solid Films Vol. 520, pp. 2424–2428 (2012).*
20. Rana Baydoun, Omar El Samad, Maria Aoun, Bilal Nsouli and Ghassan **Younes**, "Set-Up, Optimization and First Set of Samples at the Radiocarbon Laboratory in Lebanon", *Geochronometria, 41(1), 87-91 (2014).*
21. F. Jardali, M. Korek, G. **Younes**, "Theoretical calculation of the low-lying doublet electronic states of the SrF molecule", *Canadian Journal of Physics, 92(10), 1223-1231 (2014).*

22. Rana Baydoun, Omar El Samad, Bilal Nsouli, Ghassan **Younes**, "Seasonal Variation of Radiocarbon Content in Plant Leaves in a ^{14}C-Depleted Area", *Radiocarbon, Vol 57, Nr 3, p 1–7 (2015).*

23. Rana Baydoun, Omar El Samad, Bilal Nsouli, Ghassan **Younes**, "Measurement of ^{14}C Content in Leaves Near a Cement Factory in Mount Lebanon", *Radiocarbon, Vol 57, Nr 1, p 153–159, (2015).*

24. Lobna Youssef, Ghassan **Younes**, Abir Kouzayha and Farouk Jaber, "Occurrence and Levels of Pesticides in South Lebanon Water", *Chemical speciation & bioavailability 27 (2), 62-70 (2015).*

25. Sally Al Shawa, Ghassan **Younes,** Mahmoud Korek, Nayla El-Korek, "Theoretical Calculation of the Low-Lying Electronic States of the Molecule BaS", *Journal of Modern Physics, 6, 610-621 (2015).*

26. Khadija M. Hijazi, A. M. Abdel-Gaber, G. O. **Younes**, "Electrochemical Corrosion Behavior of Mild Steel in HCl and H_2SO_4 Solutions in Presence of Loquat Leaf Extract", *Int. J. Electrochem. Sci., 10, 4366 – 4380, (2015).*

27. Khadija M. Hijazi, A. M. Abdel-Gaber, G. O. **Younes,** "Influence of *Malus domestica* and *Caesalpinia bonducella* Leaf Extracts on the Corrosion Behaviour of Mild Steel in H_2SO_4 Solution", *Int. J. Electrochem. Sci., 10, 4779 – 4792, (2015).*

28. S. Al Shawa N. El-Kork, G. **Younes,** M. Korek, "Theoretical study with dipole moment calculation of new electronic states of the molecule BF", *Nanothechnology Reviews, 5(3), 363 – 368, (2016).*

29. H. T. Rahal, AM. Abdel-Gaber, G. **Younes**, "Inhibition of Steel Corrosion in Nitric Acid by Sulfur Containing Compounds", *Chemical Engineering Communications 203 (4), 435-445 (2016).*

30. Karam Hamdan, Ghassan **Younes,** Mahmoud Korek, "Dipole Moment and Electronic Structure Calculations of the Electronic States of the Molecule SiC below 97000cm^{-1}", *Modern Applied Science; Vol. 10, No. 11; p 192 – 202, (2016).*

31. Karam Hamdan, Ghassan **Younes,** Mahmoud Korek, "Dipole Moment and Electronic Structure Calculations of the Electronic States of the molecular ion SiN^+", *Applied Physics Research; Vol. 8, No. 4; p 1 – 10, (2016).*

32. N. Melhem, H. El Balaa, G. **Younes** and Z. Al Kattar, "Characteristics of the narrow spectrum beams used in the secondary standard dosimetry laboratory at the Lebanese Atomic Energy Commission", *Radiation Protection Dosimetry, 1 – 8, (2016).*

33. B. Rafei, G. Younes, M. Korek "Theoretical electronic structure of the molecule SrCl for the feasibility of laser cooling", *Journal of Physics: Conference Series 869 (1) (2017).*

34. B. El. Rafei, S. Kontar, G. **Younes** & M. Korek, "Electronic Structure and Dipole Moment Calculations of the Electronic States of the Molecule BeCl", *Modern Applied Science; Vol. 11, No. 6; pp 90-98, (2017).*

35. A. M. Abdel-Gaber, K. M. Hijazi, G. O. **Younes**, B. Nsouli, "Comparative study of the inhibitive action between the bitter orange leaf extract and its chemical constituent linalool on the mild steel corrosion in HCl solution", *Química Nova 40 (4), 395-401, (2017).*

36. Abeer Youssef, Ghassan **Younes** & Mahmoud Korek, "Static Dipole Moments and Electronic Structure Calculations of the Low-Lying Electronic States of the Molecule Zinc Selinum ZnSe", *Modern Applied Science; Vol. 11, No. 9; pp 14-19 (2017).*

37. Rana Baydoun, Omar El Samad, Bilal Nsouli and Ghassan **Younes**, "Method Validation for the Determination of Fraction of Modern ($F^{14}C$) in Wood Samples using Conventional Method", *Geochronemetria; 45, 68-73, (2018).*

38. I. R. Saad, A. M. Abdel-Gaber, G. O. **Younes**, B. Nsouli, "Corrosion Inhibition of Mild Steel in Acidic Solutions Using 1,2,4-Triazolo[1,5-a]pyrimidine", *Russian Journal of Applied Chemistry; Volume 91, Issue 2, pp 245–252, (2018).*

39. I. R. Saad, A. M. Abdel-Gaber, G. O. **Younes,** B. Nsouli, "Thiourea and N-Methylthiourea as Corrosion Inhibitors for Steel in Phosphoric Acid", *J Fail. Anal. and Preven.; V 18, I 5, pp 1293-1299, (2018).*

40. Farah Samih Zeitouni, Mohammad Fawzi Amira, Gehan Moustafa El-Subruiti and Ghassan Omar **Younes,** "Comparison of the leaving groups during the study of the aquation of halopentaammine cobalt(III) complex in tartarate at different percentage of *tert*-butanol", *European Journal of Chemistry; 9(3), 228-235, (2018).*

41. Abeer Youssef, Ghassan **Younes** & Mahmoud Korek, "Electronic Structure and Dipole Moment Calculations of the Electronic States of the Molecule ZnS", *Modern Applied Science Vol. 12, No. 3, pp 132-140, (2018).*

42. Nazek Jisr, Ghassan **Younes**, Carol Sukhn, Mohammad H. El-Dakdouki, "Length-weight relationships and relative condition factor of fish inhabiting the marine area of the Eastern Mediterranean city, Tripoli-Lebanon", *Egyptian Journal of Aquatic Research vol. 44, pp 299–305, (2018).*

43. Nazek Jisr, Ghassan **Younes**, Carol Sukhn, Mohammad H. El-Dakdouki, "Length-weight relationships and relative condition factor of fish inhabiting the marine area of the Eastern Mediterranean city, Tripoli-Lebanon", *Egyptian Journal of Aquatic Research 44(4), 299–305 (2018).*

44. Loubna Youssef , Ghassan **Younes** and Rami Al-Oweini, "Photocatalytic degradation of atrazine by heteropolyoxotungstates", *Journal of Taibah University 13(1), 274–279, (2019).*

45. Nazek Jisr, Ghassan **Younes**, Khaled El Omari, Monzer Hamze, Carol Sukhn, Mohammad H. El-Dakdouki, "Spatiotemporal Variations of Bacterial Indicators in Coastal Waters of Tripoli, Northern Lebanon", *International Journal of Applied Environmental Sciences 14(2), 145-160 (2019).*

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