

## Curriculum Vitae (CV)

الإسم: إبراهيم علي أحمد عمار

المؤهل العلمي: دكتوراه

التخصص: كيمياء تحليلية/بيئة- تطبيقات المواد النانوية

الدرجة العلمية الحالية: أستاذ مشارك

<b>Full Name</b>	<b>Ibrahim Ali Ahmed Amar</b>
<b>University</b>	Sebha University, Sebha Libya
<b>Faculty</b>	Faculty of Sciences
<b>Department</b>	Department of Chemistry
<b>Position</b>	Associate Professor
<b>E-mail address</b>	ibr.amar@sebhau.edu.ly ibr_amar@yahoo.com
<b>Research Area Key words</b>	<ul style="list-style-type: none"><li>➤ Application of nanomaterials in water treatment</li><li>➤ Synthesis of magnetic nano-adsorbents (e.g., spinel ferrites) for removal of organic materials (e.g., dyes, pesticides, oil spills), pharmaceuticals, heavy metals and other water pollutants.</li><li>➤ Solid state chemistry (electronic and ionic conductivities).</li><li>➤ Electrochemical synthesis of ammonia.</li></ul>
<b>Education</b>	<ul style="list-style-type: none"><li>➤ <b>PhD.</b> (Chemistry), <b>2014</b>, Faculty of science, Department of Pure and Applied Chemistry, Strathclyde University, Glasgow/Scotland, UK. <b>Thesis Title:</b> New materials for electrochemical synthesis of ammonia.</li><li>➤ <b>RNDr.</b> (Analytical Chemistry), <b>2005</b>. Faculty of Science, Institute of Chemistry, Department of Physical and Analytical Chemistry, P.J.Safarik University, Kosice, Slovakia. <b>Thesis Title:</b> Simultaneous Analysis of New Antidepressants Selective Serotonin Reuptake Inhibitors by Reversed-Phase Thin-layer Chromatography.</li><li>➤ <b>M.Sc.</b> (Analytical Chemistry), <b>2004</b>. Faculty of Science, Institute of Chemistry, Department of Physical and Analytical Chemistry, P.J.Safarik University, Kosice, Slovakia <b>Thesis Title:</b> Pyrolysis Gas Chromatography of Brown Coal and Methymethacrylate Mixture.</li></ul>
<b>Journal publications</b>	
1. <u>Ibrahim A. Amar</u> , Abubaker A. Sharif. <i>Nanostructured Fe-Doped <math>La_{0.3}Sr_{0.7}TiO_{3-\delta}/Ce_{0.8}Gd_{0.18}Ca_{0.02}O_{2-\delta}</math> Nanocomposite for Electrocatalytic Ammonia Synthesis From Humid <math>N_2</math>.</i>	

- Journal of Nano Research. (2025) 69-84. doi:10.4028/p-OAZQ31.
2. Ibrahim A. Amar, Asma A. Nouh, Alshafei M. Aljarani, Shamsi S. Shamsi, Kalyan Sundar Ghosh, Ahmad Hosseini-Bandegharai. *Surfactant-Assisted Co-Precipitation Synthesis of Zn-doped Tin Ferrite for Methylene Blue and Congo Red Dyes Photodegradation and Phytotoxicity Studies*. Chemistry Africa (2025). <https://doi.org/10.1007/s42250-025-01472-0>
  3. Ihssin Abdalsamed, Aisha Al-Abbasi, Ibrahim Amar, Hassan Saied, Mohamed Salih, Ibrahim Algondi, Ahmed Ehbaj, Abubaker Tlaiba, Ahmed Benarus, Ahmed Humyuni, Mohamed bin Fayed and Ali Alguwari. *Microbiology Corrosion Metabolism in Oil Field*. Global Scientific Journal. 13(6) (2025) 2520-2539.
  4. Abubaker A. Sharif, Samar E. Ahmed, Mabrouka M. Uhaydah, Ibrahim A. Ammar, & Ihssin A. Abdalsamed. *Estimation of heavy metals (Pb, Cd, Zn) in raw, commercial and traditional Eye-khol samples sold in Libya*. Libyan Journal of Medical and Applied Sciences, 3(2), (2025). 158–166. Retrieved from <https://lmmas.com/index.php/journal/article/view/90>.
  5. Ibrahim A. Amar, Maryam M. Ehmayadah, Hana A. Alsaheef, Shamsi Saad Shamsi, Moussa Khelifa, Ihssin A. Abdalsamed, Ahmad Hosseini-Bandegharai. *Plant-Mediated Synthesis of Zinc Oxide Nanoparticles Using Aqueous Extract of Grewia Tenax Fruits for Potential Antibacterial Application*. Journal of Biomimetics, Biomaterials and Biomedical Engineering, 68 (2025) 63-80. <https://doi.org/10.4028/p-d18oAL>.
  6. Mohammed A. Samba, Yiqiang Li, Zheyu Liu, Ibrahim A. Amar, Muslim Abdurrahman, Peter O. Anyimah. *Investigating Absorption Effects on Oil Droplets in Enhanced Oil Recovery: A Force Analysis Approach*. Rudarsko-geološko-Naftni Zbornik, 39(4), (2024) 103-113. <https://doi.org/10.17794/rgn.2024.4.8>.
  7. Ibrahim A. Amar, Aeshah Alzarouq, Wajdan Mohammed, Mengfei Zhang, Noarhan Matroed. *Oil spills removal from seawater surface by magnetic biochar composite derived from Heglig tree bark and cobalt ferrite*. World Journal of Engineering 21 (6) (2024) 1064–1073. <https://doi.org/10.1108/WJE-11-2022-0459>.
  8. Ibrahim A. Amar, Mabroukah A. Abdulqadir, Asmaa Benettayeb, Basant Lal, Shamsi A. Shamsi & Ahmad Hosseini-Bandegharai. *Cerium-Doped Calcium Ferrite for Malachite Green Dye Removal and Antibacterial Activities*. Chemistry Africa 7, 1423–1441 (2024). <https://doi.org/10.1007/s42250-023-00834-w>.
  9. Ibrahim A. Amar. *Synthesis of ammonia from water and nitrogen using a composite cathode based on  $La_{0.6}Ba_{0.4}Fe_{0.8}Cu_{0.2}O_{3-\delta}-Ce_{0.8}Gd_{0.18}Ca_{0.02}O_{2-\delta}$* . Journal of Electrochemical Science and Engineering, (2023) 13, 393-405. <https://doi.org/https://doi.org/10.5599/jese.1535>.
  10. Ibrahim A. Amar. *Ammonia Synthesis From Water and Nitrogen Using Lanthanum-Doped Strontium Titanate/Gadolinium And Calcium Co-Doped Ceria Composite-Based Electrocatalys*. Biointerface Research in Applied Chemistry, (2023) 13, 402. <https://doi.org/100.33263/BRIAC135.402>.
  11. Mohammed A Samba, Yiqian Li, Zheyu liu, Ibrahim A. Amar. *Literature Review of Nanotechnology in the Enhanced Oil Recovery*. Journal of Engineering Research, (2022) in press. <https://doi.org/10.36909/jer.16123>.
  12. Ihssin Abubaker Abdalsamed, Ibrahim Ali Amar, Abubaker Ahmed Sharif, Masood Abdulsalam Ghanem, Abdusatar Abdullah Farouj, Jamal Ali Kawan. *Scale Corrosion of Metallic Materials in Water Systems-A Review*. Journal of Chemical Reviews, 4 (2022) 67-80.
  13. Ibrahim A. Amar, Sarah S. Kanah, Hibah A. Hijaz, Mabroukah A. Abdulqadir, Shamsi A. Shamsi, Ihssin A. Abdalsamed, Mohammed A. Samba. *Surfactant-assisted sol-gel synthesis of zinc ferrite magnetic nanoparticles for oil spills cleanup from seawater and antibacterial activity applications*. World Journal of Engineering (2022), Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/WJE-10-2021-0605>.
  14. Ibrahim A. Amar, Salma M. Hassan, Fatima H. Aqeela, Mohamed Y. Najem, Fatima A. Altohami. *Removal of methylene blue using balanites aegyptiaca bark powder as low-cost and*

- eco-friendly biosorbent*. Research Journal of Textile and Apparel, 26 (2022) 1-17. <https://doi.org/10.1108/RJTA-07-2020-0075>.
15. Ibrahim A. Amar, Esra A. Zayid, Seada A. Dhikeel, Mohamed Y. Najem. *Biosorption Removal of Methylene Blue Dye from Aqueous Solutions using Phosphoric Acid-Treated Balanites Aegyptiaca Seed Husks Powder*. Biointerface Research in Applied Chemistry, 12 (2022) 7845-7862. <https://doi.org/10.33263/BRIAC126.78457862>.
  16. Ibrahim A. Amar, Sawsan I. Faraj, Mabroukah A. Abdulqadir, Ihssin A. Abdalsamed, Fatima A. Altohami, Mohammed A. Samba. *Oil Spill Removal from Water Surfaces using Zinc Ferrite Magnetic Nanoparticles as A Sorbent Material*. Iraqi Journal of Science, 62 (2021) 718-728. DOI: 10.24996/ij.s.2021.62.3.2.
  17. Ibrahim A. Amar, Jawaher O. Asser, Amina S. Mady, Mabroukah S. Abdulqadir, Fatima A. Altohami, Abubaker A. Sharif, Ihssin A. Abdalsamed. *Adsorptive removal of congo red dye from aqueous solutions using Mo-doped  $CoFe_2O_4$  magnetic nanoparticles*. Pigment & Resin Technology, 50 (2021) 563-573. <https://doi.org/10.1108/PRT-02-2020-0016>.
  18. Ibrahim A. Amar, Mohammed M Ahwidi. *Electrocatalytic activity of  $CoFe_{1.9}Mo_{0.1}O_4-Ce_{0.8}Gd_{0.18}Ca_{0.02}O_{2-\delta}$  composite cathode for ammonia synthesis from water and nitrogen*. World Journal of Engineering, 18 (2021) 490-496. <https://doi.org/10.1108/WJE-07-2020-0270>.
  19. Ibrahim Ali Amar, Shamsi A. Shamsi, Ruqayah M Saheem, Amdallah A Altawati, Mohammed A Abdulkarim, Mabroukah A Abdulqadir, Ihssin A Abdalsamed. *Surfactant-Assisted Co-Precipitation Synthesis of Ca-Doped Ceria Nanoparticles for Antibacterial Applications*. Advanced Journal of Chemistry-Section A, 4 (2021) 10-21.
  20. Ibrahim A. Amar, Mohammed M. Ahwidi. *Electrocatalytic Activity of Lanthanum Chromite-Based Composite Cathode for Ammonia Synthesis from Water and Nitrogen*. Advanced Materials Research, 1160 (2021) 65-74.
  21. Ibrahim A. Amar, Hebatallah M. Harara, Qamrah A. Baqul, Mabroukah A. AbdulQadir, Fatima A. Altohami, Mohammed M. Ahwidi, Ihssin A. Abdalsamed and Fatema A. Saleh. *Photocatalytic degradation of malachite green dye under UV light irradiation using calcium-doped ceria nanoparticles*. Asian Journal of Nanoscience and Materials, 3 (2020) 1-14.
  22. Ibrahim A. Amar, Abubaker Sharif, Manal Ali, Sharefa Alshareef, Fatima Altohami, Mabroukah A. AbdulQadir, Mohammed M. Ahwidi. *Removal of Methylene Blue from Aqueous Solutions using Nano-Magnetic Adsorbent Based on Zinc-Doped Cobalt Ferrite*. Chemical Methodologies, 4 (2020) 1-18.
  23. Ihssin Abdalsamed, Ibrahim Amar, Mohammed Ahwidi, Omar Abrika, Masood A G Ali. *Nanoparticles technology promoting strategies for cancer therapy: Review*. Libyan Journal of Science & Technology, 9:2 (2019) 168-175.
  24. Ibrahim Ali Amar, Zohour Mohamed Alshibani, Mabroukah Alsalueen AbdulQadir, Ihssin Abubaker Abdalsamed, Fatima Ali Altohami. *Oil Spill Removal from Water by Absorption on Zinc-Doped Cobalt Ferrite Magnetic Nanoparticles*. Advanced Journal of Chemistry-Section A, 2 (2019) 365-376. DOI: 10.33945/SAMI/AJCA.2019.4.9.
  25. I. A. Amar, A. Sharif, M. M. Alkhayali, M. A. Jabji, F. Altohami, M. A. Abdul Qadir and M. M. Ahwidi. *Adsorptive Removal of Methylene Blue Dye from Aqueous Solutions using  $CoFe_{1.9}Mo_{0.1}O_4$  Magnetic Nanoparticles*. Iranian Journal of Energy and Environment, 9 (2018) 247-254. DOI: 10.5829/ijee.2018.09.04.04.
  26. Ibrahim A. Amar, Mohammed M. Ahwidi, Mohammed Zidan, Ihssin Abdalsamed, Asmaa Ali: *Effect of sintering temperature on the electrical properties of a nanocomposite electrolyte based on calcium-doped ceria/ternary carbonate*. Libyan Journal of Science & Technology 7:2 (2018) 127-132.
  27. Ibrahim A. Amar, Abubaker Sharif, Mohammed M. Ahwidi: *Enhanced ionic conductivity in a composite electrolyte based on cerium oxide-ternary carbonate*. Journal of Pure & Applied Sciences 17 (2018) 161-169, ISSN 2521-9200.

28. Ibrahim A. Amar, Abubaker Sharif, Mohammed M. Ahwidi: *The ionic conductivity of a nanocomposite electrolyte based on calcium-doped ceria/ternary carbonate*. Journal of Pure & Applied Sciences 16 (2017) 31-37, ISSN 2521-9200.
29. ابوبكر احمد الشريف، ابراهيم علي عمار، فتحى احمد الشريف: تقدير بعض العناصر الثقيلة في التبغ الخام و بعض السجائر المتداولة في ليبيا. المجلة العربية للعلوم و نشر الأبحاث، المجلد الأول - العدد (4)؛ ص. 63-72؛ بحث رقم 181016.
30. Ibrahim A. Amar, Rong Lan, John Humphreys, Shanwen Tao: *Electrochemical synthesis of ammonia from wet nitrogen via a dual-chamber reactor using  $La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3-\delta}-Ce_{0.8}Gd_{0.18}Ca_{0.02}O_{2-\delta}$  composite cathode*. Catalysis Today 286 (2017) 51-56, DOI:10.1016/j.cattod.2016.09.006.
31. Ibrahim A. Amar, Rong Lan, Shanwen Tao: *Synthesis of ammonia directly from wet nitrogen using redox stable  $La_{0.75}Sr_{0.25}Cr_{0.5}Fe_{0.5}O_{3-\delta}-Ce_{0.8}Gd_{0.18}Ca_{0.02}O_{2-\delta}$  composite cathode*. RSC Advances 5 (2015) 38977-38983, DOI:10.1039/C5RA00600G.
32. Rong Lan, Khaled A. Alkhamzi, Ibrahim A Amar, Shanwen Tao: *FD Electrolysis: Synthesis of ammonia directly from wet air using  $Sm_{0.6}Ba_{0.4}Fe_{0.8}Cu_{0.2}O_{3-\delta}$  as the catalyst*. Faraday Discussions 182 (2015) 353-363, DOI:10.1039/C5FD00033E.
33. Ibrahim A. Amar, Rong Lan, Christophe T.G. Petit, Shanwen Tao: *Electrochemical Synthesis of Ammonia Using  $Fe_3Mo_3N$  Catalyst and Carbonate-Oxide Composite Electrolyte*. International journal of electrochemical science 10 (2015) 3757-3766.
34. Ibrahim A. Amar, Rong Lan, Christophe T. G. Petit, Shanwen<sub>2</sub> Tao: *Electrochemical Synthesis of Ammonia Based on  $Co_3Mo_3N$  Catalyst and  $LiAlO_2-(Li,Na,K)_2CO_3$  Composite Electrolyte*. Electroanalysis 6 (2015) 286-294, DOI 10.1007/s12678-014-0242-x.
35. Rong Lan, Sami M.M. Abdallah, Ibrahim A. Amar, Shanwen Tao: *Preparation of dense  $La_{0.5}Sr_{0.5}Fe_{0.8}Cu_{0.2}O_{3-\delta}-(Li,Na)_2CO_3-LiAlO_2$  composite membrane for  $CO_2$  separation*. Journal of Membrane Science 468 (2014) 380-388, DOI:10.1016/j.memsci.2014.06.030.
36. Rong Lan, Khaled A. Alkhamzi, Ibrahim A. Amar, Shanwen Tao: *Synthesis of ammonia directly from wet air at intermediate temperature*. Applied Catalysis B: Environmental, 152-153 (2014) 212-217, DOI:10.1016/j.apcatb.2014.01.037.
37. Ibrahim A. Amar, Rong Lan, and Shanwen Tao: *Electrochemical Synthesis of Ammonia Directly from Wet  $N_2$  Using  $La_{0.6}Sr_{0.4}Fe_{0.8}Cu_{0.2}O_{3-\delta}-Ce_{0.8}Gd_{0.18}Ca_{0.02}O_{2-\delta}$  Composite Catalyst*. Journal of The Electrochemical Society 161 (2014) H350-H354, DOI:10.1149/2.021406jes
38. Ibrahim A. Amar, Christophe T. G. Petit, Rong Lan, Gregory Mann, and Shanwen Tao: *Electrochemical synthesis of ammonia from wet nitrogen using  $La_{0.6}Sr_{0.4}FeO_{3-\delta}-Ce_{0.8}Gd_{0.18}Ca_{0.02}O_{2-\delta}$  composite cathode*. RSC Advances 4 (2014) 18749-18754, DOI:10.1039/c4ra02090a
39. Ibrahim A. Amar, Christophe T.G. Petit, Gregory Mann, Rong Lan, Peter J. Skabara, Shanwen Tao: *Electrochemical synthesis of ammonia from  $N_2$  and  $H_2O$  based on  $(Li,Na,K)_2CO_3-Ce_{0.8}Gd_{0.18}Ca_{0.02}O_{2-\delta}$  composite electrolyte and  $CoFe_2O_4$  cathode*. International Journal of Hydrogen Energy 39 (2014) 4322-4330, DOI:10.1016/j.ijhydene.2013.12.177.
40. Rong Lan, Khaled A. Alkhamzi, Ibrahim A. Amar, Shanwen Tao: *Synthesis of ammonia directly from wet air using new perovskite oxide  $La_{0.8}Cs_{0.2}Fe_{0.8}Ni_{0.2}O_{3-\delta}$  as catalyst*. Electrochimica Acta 123 (2014) 582-587, DOI:10.1016/j.electacta.2014.01.026
41. Ibrahim A Amar, Christophe TG Petit, Lei Zhang, Rong Lan, Peter J Skabara, Shanwen Tao: *Electrochemical synthesis of ammonia based on doped-ceria-carbonate composite electrolyte and perovskite cathode*. Solid State Ionics 201 (2011) 94-100, DOI:10.1016/j.ssi.2011.08.003

42. Ibrahim A. Amar, Rong Lan, Christophe T. G. Petit, Shanwen Tao: *Solid-state electrochemical synthesis of ammonia: A review*. Journal of Solid State Electrochemistry 15 (2011) 1845-1860, DOI:10.1007/s10008-011-1376-x.
43. Tatána Gondová, Ibrahim A. Amar: *RP TLC Analysis of New Antidepressants in Pharmaceutical Preparations*. JPC - Journal of Planar Chromatography - Modern TLC 24 (2011) 40-43, DOI:10.1556/JPC.24.2011.1.7.
44. Ibrahim A. Amar, Rong Lan, Christophe T. G. Petit, Valeria Arrighi, Shanwen Tao: *Electrochemical synthesis of ammonia based on a carbonate-oxide composite electrolyte*. Solid State Ionics 182 (2011) 133-138, DOI:10.1016/j.ssi.2010.11.009
45. A. Oriňák, L. Halás, I. Amar, J.T. Andersson, M. Ádámová: *Co-pyrolysis of polymethyl methacrylate with brown coal and effect on monomer production*. Fuel 85 (2006) 12-18, DOI:10.1016/j.fuel.2005.04.030.

### Conferences and meetings

1. The 1st "International e-Conference on Chemicals & Materials for Emergent technologies (CheMET-2020)" held between 15-17 November 2020, jointly organized by Center for Advanced Materials, Qatar University, Qatar, Emergent Materials Journal and Chemistry Africa Journal, Springer.
2. The 7<sup>th</sup> International Scientific Forum 11<sup>th</sup> to 15<sup>th</sup> November 2020. (المحفل العلمي الدولي السابع الذي نظمته منصة أريد افتراضيا في الفترة ما بين 11 الى 15-11-2020م)
3. The Second International Conference on Science, Engineering and Technology (ICoSET 2019), September 5-7, 2019. Universitas Islam Riau, Pekanbaru, Indonesia.
4. The First Conference for Engineering Sciences and Technology (CEST-2018), 25-27 September, 2018, Garaboulli, Libya
5. First International Conference on Science and Technology, Under the slogan "For the optimum application of science and technology" (1st ICST-2018). 12<sup>th</sup> – 14<sup>th</sup> February, 2018, Sebha, Libya.
6. The 2<sup>nd</sup> Libyan Conference on Chemistry and its Applications LCCA-2, 9-11 May, 2017, Benghazi, Libya.
7. Hydrogen Delivery (HDel) Meeting, 26-27 May, 2010, Cardiff, UK.
8. The 5<sup>th</sup> Jordanian International Conference of Chemistry, 18-19 June, 2008, Irbid, Jordan.
9. The 14<sup>th</sup> Arab Chemistry Conference & Exhibition (ACC-14), 18-21 February, 2008, Tripoli, Libya.
10. The 13<sup>th</sup> International Symposium on Separation Sciences. 27-29 June, 2007. Strbske Pleso, High Tatras. Slovak Republic.
11. The 1<sup>st</sup> Conference on Recent Development in Chemistry and their Applications. 14-16 November, 2006. Sebha, Libya.
12. The 12<sup>th</sup> International Symposium" Advances and Applications of Chromatography in Industry, June 29-July 1, 2004. Bratislava, Slovak Republic.

### Conference papers

1. Mohammed A Samba, Ibrahim Ali Amar, Musa Abuadabba, Mohammed A ALfroji, Zainab M Salih and Tomi Erfando: *Separation of Crude Oil and Its Derivatives Spilled in Seawater by using Cobalt Ferrite Oxide*. The Second International Conference on Science, Engineering and Technology (ICoSET 2019), September 5-7, 2019. Universitas Islam Riau, Pekanbaru, Indonesia.
2. Ibrahim A. Amar, Abubaker Sharif, Najat A. Omer, Naght E. Akale, Fatima Altohami, Mabroukah A. AbdulQadir: *Synthesis and Characterization of Magnetic CoFe<sub>1.9</sub>Cr<sub>0.1</sub>O<sub>4</sub> Nanoparticles by Sol-gel Method and Their Applications as an Adsorbent for Water Treatment*. Published by AIJR

Publisher in Proceedings of First Conference for Engineering Sciences and Technology (CEST-2018), September 25-27, **2018**, vol. 2. DOI: <https://doi.org/10.21467/proceedings.4.43>.

3. Ibrahim A. Amar, Abubaker Sharif, Mohammed M. Ahwidi and Fatema A. Saleh: *Electrical properties of gadolinium-doped ceria/ternary carbonate nanocomposite electrolyte*. The 2<sup>nd</sup> Libyan Conference on Chemistry and its Applications LCCA-2, 9-11 May, **2017**, Benghazi, Libya.
4. Ibrahim. A. Amar, T. Gondova, D. Brinarska. Separation of New Antidepressants by Reversed-Phase Thin-layer Chromatography. The 1<sup>st</sup> Conference on Recent Development in Chemistry and their Applications. 14-16 November, **2006**, Sebha, Libya.

#### **Book Chapters**

1. Wanisa Abdussalam-Mohammed, Ibrahim A. Amar, Mahdi M. AlMaky, Alyaa Abdelhameed, Asma O. Errayes. Chapter 9 - Silver nanoparticles and protein polymer-based nanomedicines. (**2023**) pages 239-311. Book title: Protein-Based Biopolymers: From Source to Biomedical Applications. Edited by: Susheel Kalia, Swati Sharma .Woodhead Publishing. Paperback ISBN: 9780323905459. Elsevier.
2. Mohamed Chaker Necibi, Ibrahim Amar, Khalid Draoui, Borhane Mahjoub. Chapter 4- Current situation and future prospects for the production and utilization of sorbing materials for water depollution in North Africa. (**2021**) pages 49-71. <https://doi.org/10.1016/B978-0-12-820042-1.00023-7>. Book title: Sorbents Materials for Controlling Environmental Pollution. Edited by: Avelino Nunez-Delgado. Paperback ISBN: 9780128200421. Publisher: Elsevier.

#### **Working Experience**

- Supervisor of several research projects of undergraduate students (B.Sc) at Department of Chemistry, Sebha University, Sebha Libya.
- Teaching experience of the following courses; General Chemistry, Principles of Analytical Chemistry, and Chromatographic methods.
- Supervisor of research project of master degree students (MSc) at Department of Chemistry, Sebha University, Sebha Libya.

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1/1/2026