

السيرة الذاتية
Curriculum Vitae (CV)

الإسم: إبراهيم علي أحمد عمار

المؤهل العلمي: دكتوراه

التخصص: كيمياء تحليلية

الدرجة العلمية الحالية: أستاذ مساعد

Full Name	Ibrahim Ali Ahmed Amar
University	Sebha University, Sebha Libya
Faculty	Faculty of Sciences
Department	Department of Chemistry
Position	Assistant Professor
E-mail address	ibr.amar@sebhau.edu.ly ibr_amar@yahoo.com
Research Area Key words	<ul style="list-style-type: none">➤ Application of nanomaterials in water treatment➤ Synthesis of magnetic nano-adsorbents (e.g., spinel ferrites) for removal of organic materials (e.g., dyes, pesticides), pharmaceuticals, heavy metals and other water pollutants.➤ Solid state chemistry (electronic and ionic conductivities).➤ Electrochemical synthesis of ammonia.
Education	<ul style="list-style-type: none">➤ PhD. (Chemistry), 2014, Faculty of science, Department of Pure and Applied Chemistry, Strathclyde University, Glasgow/Scotland, UK. Thesis Title: New materials for electrochemical synthesis of ammonia.➤ RNDr. (Analytical Chemistry), 2005. Faculty of Science, Institute of Chemistry, Department of Physical and Analytical Chemistry, P.J.Safarik University, Kosice, Slovakia. Thesis Title: Simultaneous Analysis of New Antidepressants Selective Serotonin Reuptake Inhibitors by Reversed-Phase Thin-layer Chromatography.➤ M.Sc. (Analytical Chemistry), 2004. Faculty of Science, Institute of Chemistry, Department of Physical and Analytical Chemistry, P.J.Safarik University, Kosice, Slovakia Thesis Title: Pyrolysis Gas Chromatography of Brown Coal and Methymethacrylate Mixture.

المهام الادارية

1. منسق الدراسات العليا بقسم الكيمياء في الفترة ما بين 2016-2-1م إلى 2016-12-1م
2. مدير المختبر المركزي بجامعة سبها في الفترة ما بين 2016-12-18م إلى 2020-11-19م.

Journal publications

1. 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*, (2021) in press. <https://doi.org/10.1108/PRT-02-2020-0016>.
2. 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*, (2021) in press.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. Ibrahim Ali Amar, Zohour Mohamed Alshibani, Mabroukah Alsalheen 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.
9. 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.
10. 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.
11. 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.
12. 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*

13. ابوبكر احمد الشريف، ابراهيم علي عمار، فتحي 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.
14. 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.
15. 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.
16. Rong Lan, Khaled A. Alkhazmi, 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.
17. 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.
18. Ibrahim A. Amar, Rong Lan, Christophe T. G. Petit, Shanwen₂ Tao: *Electrochemical Synthesis of Ammonia Based on Co_3Mo_3N Catalyst and $LiAlO_2-(Li,Na,K)_2CO_3$ Composite Electrolyte*. *Electrocatalysis* 6 (2015) 286-294, DOI 10.1007/s12678-014-0242-x.
19. 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.
20. Rong Lan, Khaled A. Alkhazmi, 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.
21. 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
22. 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
23. 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.
24. Rong Lan, Khaled A. Alkhazmi, 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
25. 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
26. 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.

27. 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.
28. 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
29. 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 7th International Scientific Forum 11th to 15th 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). 12th – 14th February, 2018, Sebha, Libya.
6. The 2nd 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 5th Jordanian International Conference of Chemistry, 18-19 June, 2008, Irbid, Jordan.
9. The 14th Arab Chemistry Conference & Exhibition (ACC-14), 18-21 February, 2008, Tripoli, Libya.
10. The 13th International Symposium on Separation Sciences. 27-29 June, 2007. Strbske Pleso, High Tatras. Slovak Republic.
11. The 1st Conference on Recent Development in Chemistry and their Applications. 14-16 November, 2006. Sebha, Libya.
12. The 12th 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_{1.9}Cr_{0.1}O₄ 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 2nd 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 1st Conference on Recent Development in Chemistry and their Applications. 14-16 November, **2006**, Sebha, Libya.

Book Chapters

1. Mohamed Chaker Necibi, Ibrahim Amar, Khalid Draoui, Borhane Mahjoub. Chapter4- 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>. Sorbents Materials for Controlling Environmental Pollution. 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.

6/3/2021

ابراهيم عمار