



Curriculum Vitae



Ali Sami Ismail Hussein



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Summary

Assistant professor of Industrial Chemistry with 19+ years of experience. Offering extensive knowledge of education and research for undergraduate and postgraduate students. Successful laboratory supervision and management. Through these qualities, I have confidence in my ability to facilitate positive change and collective effort.

Skills

- ☞ Highly proficient with teaching of undergraduate and postgraduate.
- ☞ Proficient with organic synthesis.
- ☞ Strong organizational and prioritization skills along with keen attention to detail.
- ☞ Proficient with the current versions of ChemDraw and Biorender.
- ☞ Very good interpersonal and organizational skills, with an ability to work both independently and collaboratively.

Experience and Research Interest

- ☞ Synthetic Chemist - 04/2002 to present.
- ☞ Synthesis of Polymers.
- ☞ Heterocyclic chemistry.
- ☞ NMR spectroscopy.
- ☞ FT-IR Spectroscopy.
- ☞ Transmission Electronic Microscopy (TEM)
- ☞ Scanning Electronic Microscopy (SEM)
- ☞ X-Ray Diffractometry (XRD)
- ☞ Thermogravimetric Analysis (TGA)
- ☞ NMR Spectroscopy
- ☞ BET Surface Area Analysis, and BJH Pore Size and Volume Analysis



Education

- ✿ PhD Industrial Chemistry, Moscow State University of Fine Chemical Technologies named after M.V. Lomonosov 2009-2010.
- ✿ MSc Analytical Chemistry, University of Tikrit 2000-2001.
- ✿ BSc Chemistry, University of Baghdad 1996.

Academic Appointments

- ✿ Senior Lecturer / Assistant professor of Industrial Chemistry, Department of Chemistry, College of Education for Pure Sciences, University of Anbar, 2002–present.
- ✿ Lecturer of Industrial Chemistry, Department of Chemistry, College of Education for Pure Sciences, University of Anbar, 2009–2015
- ✿ Assistant Lecturer of Analytical Chemistry, Department of Chemistry, College of Education for Pure Sciences, University of Anbar, 2002–2009.

Courses Taught

Undergraduate

- ✿ Analytical Chemistry, Year two and one, College of Education for Pure Sciences, University of Anbar.
- ✿ Instrumental analysis, Year four, College of Education for Pure Sciences, University of Anbar.
- ✿ Industrial and polymer chemistry, Year three and four, College of Education for Pure Sciences, University of Anbar.
- ✿ Organic chemistry, Year two, College of Education for Pure Sciences, University of Anbar.
- ✿ Quantum Chemistry, Year four, College of Education for Pure Sciences, University of Anbar.

Postgraduate

- ✿ Ring opening polymerization.
- ✿ Methods of Scientific Research.

Memberships

- ✿ Member of the American Chemical Society ACS.

Supervision

- ✿ Two MSc students.



Conferences

1. Participation in the Second country Conference of Chemistry, College of Science/ University of Babylon 2001.
2. Participation in the General and Applied Chemistry Conference, University of Mendeleev / Russia / Moscow 2007.
3. Participation in the technological systems for nanomeasurements Conference, Ukraine 2007.
4. Participation in Scientific Conference of the intensive processes of solid fossil fuels, Russia's strategy in the twenty first century, Russia / Moscow 2007.
5. Participation in the World Conference on Science and Technology, Russia - Volgograd 2008.
6. Young Chemists Conference, University of Jordan, Amman 2012.
7. International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability, TMREES15, Beirut 2015.
8. International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability, TMREES16, Beirut 2016.
9. International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability, TMREES17, Beirut 2017.
10. 4th International Conference on Power and Energy Systems Engineering, CPESE 2017 , Berlin, Germany 2017.
11. The 6th International Conference on Power and Energy Systems Engineering (CPESE 2019), September 20–23, 2019, Okinawa, Japan.

Selected publications

1. A.I. Nikolaev, B.V. Peshnev, A.S. Ismail. Preparation of Carbon Nanofibers from Electrocracking Gas on an Iron Oxide Catalyst. *Solid Fuel Chemistry*. 43; 2008: 35–37.
2. Ali S. Ismail. Oligomerization of acetylene from gas electrocracking over Pd/CNFs catalyst. *Journal of kerbala university*. 10(3); 2012, 55-77.
3. Ali. S. Ismail. Hydrooligomerization of Acetylene from Electrocracking Gas over Ni/CNFs Catalyst. *J. of University of Anbar for pure science*. 8(1); 2014, 19-27.
4. Ali Sami, Muthana Mohammed, Ahmad Dhary. Synthesis of Carbon Nanofibers from Decomposition of Liquid Organic Waste from Chemical and Petrochemical Industries. *Energy Procedia*. 74; 2015; 4-14.
5. Ali Sami, Abdullah Hussein. Growth of Carbon Nanofibers Synthesised from Decomposition of Liquid Organic Waste on a Ni/Al₂O₃ Catalyst: Thermodynamic and Kinetic Analyses. *Energy Procedia*. 74; 2015: 32-43.
6. Muthana M. Sirhan, Ali S. Ismail, Ahmed D. Saleh. Mercuric Ions (II) Uptake From Aqueous Solutions by Chelating Resin Containing Pendant Multidentate Ligand. *J. of University of Anbar for pure science*. 9(3); 2015: 10-18.
7. Ali Sami, Ahmed H. Shukker, Amina A. Fayad. Production of Hydrogen and Nanocarbon by Catalytic Decomposition of Electrocracking Gas over an Industrial Catalyst under Integrated Reactor Conditions. *Energy Procedia*. 141; 2017: 315-331.



8. Marwan M. Farhan, Muthana M. Al-Jumaly, Ahmed D. Al-Muhammadi, Ali S. Ismail. Development of a New Method for Reducing the Loss of Light Hydrocarbons at Breather Valve of Oil Tanks. *Energy Procedia*. 141; 2017: 471-478.
9. Abdullah Hussein Kshash, Ali Sami Ismail. Minimizing Evaporation of Light Hydrocarbons for Iraqi Gasoline by using D-Glucitol Fatty Acid Esters as Reduced Pressure Agents, Synthesis and Characterization. *Petroleum and Coal*. 61(1); 2019: 100-109.
10. Ahmad D. Saleh, Muthana M. Sirhan, Ali S. Ismail. Study Sorption and Desorption of Cd^{+2} , Pb^{+2} Ions by Selected Chelating Resin to Removal them from industrial and environmental wastes. *Energy Reports*. 6; 2020: 243–249.
11. Shukkur A. Hamed, Ali S. Ismail, Ahmed Dhary Saleh. Synthesis of Six and Seven-membered Heterocyclic Molecules Containing an Adamantyl Fragment and an X-ray Crystal Structure of (E)-N-(adamantan-1-yl)-1-(3-nitrophenyl)methanimine. *Baghdad Science Journal*. 17(1); 2020: 272- 386.
12. Wissam M Saleh, Ali Sami Ismail. Synthesis and Characterization of Sustainable Copolymers with some methacrylate Monomers Based on β - Myrcene. *Solid State Technology*. 63(2); 2020: 1380-1400.
13. Maysoon Ibrahim Ahmed1, Ali Sami Ismail. Synthesis and Characterization of Sustainable co-polymers using a Series of Methacrylate Monomers and β -myrcen. *International Journal of Drug Delivery Technology* . 2022.

Awards and Certificates

1. A patent issued by the government department of intellectual property, patents and trademarks / Russia / for a way to receive nano fibers from carbon material / Patent No. 2350555 in 27/03/2009 / posted on 27.03.2009, No. 9, Page 3 / Moscow.



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