

Curriculum Vitae



Name	Shurooq Talib Ramadhan Al-Humairi			
Affiliation (Included Phone and Email)	University of Technology , Department of Chemical Engineering ,Baghdad ,Iraq Email: 80024@uotechnology.edu.iq Salhemeri2004@yahoo.com			
Date of Birth	٧-٨-١٩٧٦			
Place of Birth	Bagdad ,Iraq			
Nationality	Iraqi			
Education	Degree	Discipline	Institution	Year
	Post Doctorat	School of Engineering	Newcastle Univ./UK	٢٠٢٢
	Ph.D	Chemical Engineering	Univ.of.Technology	٢٠٠٨
	M.SC	Chemical Engineering	Univ.of.Technology	٢٠٠١
	B.SC	Chemical Engineering	Univ.of.Technology	١٩٩٨
Academic experience				
Institution	Rank	Title	When	Full time or Part time
Chemical Engineering Dept.	Senior lecturer	instructor	٢٠٠٢- ٢٠٠٧	Full time
Chem. Process. Eng Branch	Assist professor "Lecture"	Doctor in chemical engineering	٢٠٠٨- present	
Non-academic experience				
Company or entity	Title	Brief description of position	When	Full time or Part time
Ethylene plant in Basrah petrochemical complex NO.١ (PC١) - Iraq .	Researcher	Ethylene refrigeration cycle	٢٠٠٥- ٢٠٠٨	Part time
Education and Experience				

- Postdoctoral -٢٠٢٠ -٢٠٢٢, University of Newcastle/UK -Chemical engineering and Process Intensification,” **direct production of biodiesel from oleaginous solid feedstocks**”
- Ph.D.-٢٠٠٨, University of Technology – Department of chemical engineering , Baghdad, Iraq, thesis “ **Optimization Of Ethylene Refrigeration System Using Genetic Algorithms Method**”,
- Msc. ٢٠٠٧, University of Technology – Department of chemical engineering , Baghdad, Iraq, thesis “ **The nicotine extraction from tobacco wastes** “
- Bsc.-١٩٩٨ University of Technology – Department of chemical engineering , Baghdad, Iraq, Project design ” **Sodium bicarbonate Production**”.

Certifications or professional registrations

- Certificate of representation at “The ١st international conference of petroleum technology and petrochemicals”, Petroleum technology department/ university of technology-Iraq, ٢٠١٩.
- Certificate of representation at “Fourth international scientific conference on environmental and sustainable development” (٤ ISCESDth)/ Egypt-٢٠١٨.
- Certificate of representation at “ Jordan international chemical engineering conference “ V,JICECO٨, ٢٠١٧.
- Certificate of representation at conference ٣rd Iraq oil and gas –Amara-٢٠١٥.
- Certificate of representation at the first international renewable energies- University of Technology – Iraq -٢٠١٣.
- Educational Certificate -University of Technology – Continuous Learning Center ٢٠٠٨
- Certificate of representation at “ Jordan international chemical engineering conference “ V,JICECO٥, ٢٠٠٥.
- English Language Certificate - University of Technology – Iraq -٢٠٠٠

Research Interests

- extraction of organic compound and inorganic substances
- Thermodynamics for chemical engineering.
- Refrigeration systems using hydrocarbon gases/ **Ethylene Refrigeration System.**
- Clathrate hydrate processes /**Gas hydrate system** or **liquid hydrate system.**
- Water treatment / Purification of industrial and oil water.
- Phase change of materials.
- Biodiesel production
- Algae harvesting
- Biofuel
- Renewable Energy
- Adsorption
- sustainable developments
- Algae oil for engine
- and other environmental aspects.

Current membership in professional organizations
-Membership- Iraqi Engineers Union and Member of the Iraqi Nanotechnology Society.
Honors and awards
- Many acknowledgment letters. - There are more than twenty thanks from presidents of University of Technology for various efforts at period of (٢٠٠٢-٢٠١٩). - There are more than forty thanks from presidents of Chemical Engineering Department for various efforts at period of (٢٠٠٢-٢٠١٩).
Service activities (within and outside of the institution)
- Member of the examination committee, Chemical Engineering department, ٢٠٠٨-٢٠١٢ and ٢٠١٦-till now. - Manger of the division of permanent scientific committees ,٢٠١٢-٢٠١٧. - Member & Rapporteur of the scientific committee ,Chemical Engineering Department - University of Technology, ٢٠١٠- ٢٠١٩. - Member,Chemical Process Engineering Branch Council - Chemical Engineering Department - University of Technology, ٢٠١٥-present. - Member, Commission for Teaching- Chemical Engineering Department - University of Technology,٢٠١٠-٢٠١٩. - Chairman of the Projects Committee - Chemical Process Engineering Branch - Chemical Engineering,٢٠١٦-٢٠١٩. - Member of the higher examination committee, Chemical Engineering department ,٢٠١٦-٢٠١٧.
<u>-Academic Experience :-</u>
١) I taught the following topics as Lecturer : ❖ Thermodynamics ٢ nd Class ❖ Thermodynamics ٣ rd Class ❖ Engineering Mechanics & Strength of Materials ١ st Class ٢) Experience in guiding students preparing projects. ❖ I supervised undergraduate project for ٤٠ students.
١-Undergraduate Level
<ul style="list-style-type: none"> • ٢٠٠١-٢٠٠٣ taught ٤th class in Technical College in Baghdad , Subject taught : Chemical Process Industries. • ٢٠٠٢ – tell now supervision for Project design for ٤th class student in Chemical engineering-University of Technology. • ٢٠٠١-٢٠٠٣ Scientific Supervision on Laboratory of Chemical Process Industries for ٤th class in Chemical engineering-University of Technology. • ٢٠٠٧-٢٠٠٩ taught ١st class , subject taught : Engineering Mechanics & Strength of Materials. • ٢٠٠٩- ٢٠١٣ taught ٢nd class , subject taught : Thermodynamic Engineering . • ٢٠١٣/٢٠١٤ tell now taught ٣rd class, Thermodynamic Engineering “١st law and other basic concepts, Volumetric properties of pure fluids, The ٢nd law of thermodynamics, Thermodynamic properties of fluids, Applications of thermodynamics to flow processes, Production of power from heat, Refrigeration and liquefaction, Thermodynamic analysis of processes,

Vapor\liquid equilibrium, Solution thermodynamics: theory, Chemical Reaction equilibrium, Renewable energy”.

- ۲۰۱۳/۲۰۱۴ tell now Scientific Supervision on Laboratory of Thermodynamic Engineering for ۳rd class.

۳)Supervisor of four master thesis.

۲-Postgraduate Level

- Supervisor for MSc. student ; thesis entitled “Studying of carbon steel corrosion in salt solution and petroleum products in presence of CO_2 “.
- Supervisor for MSc. student ; thesis entitled “Study the thermodynamic conditions of clathrate hydrates dissociation for ternary systems comprising (refrigerant, salt , water)”.
- Supervisor for MSc. student ; thesis entitled “Study the effect of different promoters on thermodynamics behavior for refrigerant gas clathrate hydrate system”.
- Supervisor for MSc. student ; thesis entitled “Study the influence of variables on clathrate technology behavior that using in separation of water from industrial pollutants”.
- Supervisor for Ph.D. student ; thesis entitled “Study the effectiveness factor during heterogeneous catalysis using novel nano-zeolite catalyst”.

- Participating and attending many conferences and workshops within of the institution (UOT).

- Organizing many courses at Continuing Education Center (UOT).

-Cooperation and coordination with governmental industries and ministries.

- Member at the committee of educational coaching- Chemical Engineering Department - University of Technology.

Skills and Qualifications

- Microsoft Office “ word, excel, power point, outlook ”
- Statistic
- Math – lab
- Haysis
- Aspen plus

Briefly list the most important publications and presentations title, co-authors if any, where published and/or presented, date of publication or presentation:

Research

Under publication

- Statistical investigation of study the effects of different parameter on hexamine production using response surface methodology (RSM), Dr. Shurooq Talib AL-Hemeri , Dr. Riyadh Sadeq AL-Mukhtar and Nasma Blasiem Abed.
- Study the effective of clathrate hydrate technique Remove (potassium permanganate and Povidone iodine) dyes out of Contaminated Water, Dr. Shurooq Talib AL-Hemeri , Dr. Riyadh Sadeq AL-Mukhtar and Mustafa S. Mohammed.

Published

- 1) "The nicotine extraction from tobacco wastes", Iraqi • journal of chemical and petroleum engineering, ٢٠٠٢, vol.٣, March.
- ٢) "Optimization of the nicotine sulfate preparation from tobacco wastes", Engineering and Technology, vol.٢١, No.٨, ٢٠٠٢.
- ٣) "Use of a computer simulator (HYSYS) to design an industrial Propylene refrigeration system", Jordan international chemical engineering conference V,JICECO, ٢٠٠٥.
- ٤) " The Effect of Solid on the Homogenous- Heterogeneous Transition Region in Baffled and Un baffled Bubble Column with Non-Newtonian Liquid", Engineering and Technology Journal,vol.٢٨-No.٢٣-٢٠١٠.
- ٥) "Phosphate rock treatment with HCL acid for increasing P₂O₅ content". Engineering and Technology, vol.٣٠, No.١, ٢٠١٢.
- ٦) "Effect of physical properties on heat transfer and flow regimes in bubble column", Al-Qadisiyah Journal for Engineering,٣-July-٢٠١٤ .
- ٧) Conversion of “Bagasse” to Bio-Ethanol Through Fermentation to Produce Bio-Fuel and Gasohole , ١st scientific seminar on renewable energies, sponsored by IREX and university of Missouri,University of Technology -١٧Sep.-٢٠١٣.
- ٨) Optimization of ethylene refrigeration system using genetic algorithms method", ٣rd Iraq oil and gas conference –Amara-October, ٢٠١٥.
- ٩) Study the corrosion behavior of carbon steel in presence of CO₂ gas in oil pipe lines.Wulfenia Journal ,vol.٢٣-No.٢-Feb.٢٠١٦.
- ١٠) Experimental study and mathematical modeling of a vapor compression refrigeration system, ٨th Jordan international chemical engineering conference – Amman – ٧-٩/١١/٢٠١٧.
- ١١) Study the Dissociation Enthalpies for R١٣٤a Clathrate Hydrate in Binary and Ternary Systems, Al-Khwarizmi Engineering Journal, vol.١٤,No. ٣,P.P. ٥٧- ٦٧ September, ٢٠١٨.
- ١٢) Thermodynamic and kinetic investigation of desalination by refrigerant clathrate hydrate formation, “Fourth international scientific conference on environmental and sustainable development” (٤thISCESD)/ Egypt-٢٠١٨,Engineering and Technology Journal, Vol. ٣٧, Part C, No. ١, ٢٠١٩.
- ١٣) Study the Effect of Silica Gel Powder on Clathrate Hydrate Formation Behavior for HFC-١٣٤a Gas, Journal of University of Babylon for Engineering Sciences, ,Vol.٢٦, No.١٠,٢٠١٨.
- ١٤) Study the effect of tween ٨٠ on clathrate hydrate formation behavior for HFC-١٣٤a, AL-Qadisiyah journal for engineering sciences, Vol .١١, No.٣, ٢٠١٨.
- ١٥) Study the effect of organic promoters on thermodynamics behavior for refrigerant gas clathrate hydrate system, The ١st international conference of petroleum technology and petrochemicals”, Petroleum technology department/

University of Technology-Iraq, ١٠-١١/٤/٢٠١٩.

١٦) Removal Heavy Metals from Industrial wastewater by using of cyclopentane - clathrate hydrate formation technology, Dr. Shurooq Talib AL-Hemeri , Dr. Riyadh Sadeq AL-Mukhtar and Marwa Naser Hussine, The Fourth International Conference on Buildings, Construction and Environmental Engineering - BCEE^٤ ,Istanbul - Turkey , October ٧ - ٩, ٢٠١٩.

١٧) Study The Corrosion Behavior of Carbon Steel in Presence Of CO₂ Gas in Oil Pipe Lines ,Shurooq T. Remedhan, Shatha.A.Sameh, Nedhal A. Shaker, Diyala Journal of Engineering Sciences Vol. ١٢, No. ٠٣, September ٢٠١٩, pages ٣٧-٥٤.

١٨) Experimental investigation of thermodynamics, kinetics and equilibrium of nickel ion removal from wastewater using zinc oxide nanoparticles as the adsorbent, Dr. Shurooq Talib AL-Hemeri , Engineering and Technology Journal / University of Technology, Vol. ٣٨, Part A (٢٠٢٠), No. ٠٧, Pages ١٠٤٧-١٠٦١.

١٩) Study the influence of different variables on clathrate practical applications in phenol removal, Dr. Shurooq Talib AL-Hemeri , Dr. Riyadh Sadeq AL-Mukhtar and Marwa Naser Hussine, Engineering and Technology Journal / University of Technology, Vol. ٣٨, Part A (٢٠٢٠), No. ٠٩, Pages ١٣٧٣-١٣٨٣ Engineering and Technology.

٢٠) Biodiesel Production through Acid Catalyst In Situ Reactive Extraction of Chlorella vulgaris Foamate, Shurooq T. Al-Humairi, Jonathan G. M. Lee, Musa Salihu and Adam P. Harvey , Energies, ٢٠٢٢, vol. ١٥, issue ١٢, ١-٢٠.

٢١) Direct and rapid production of biodiesel from algae foamate using a homogeneous base catalyst as part of an intensified process , Shurooq T. Al-Humairi, Jonathan G. M. Lee, and Adam P. Harvey , Energy Conversion and Management: X, ٢٠٢٢, vol. ١٦, ١٠٠٢٨٤.

Briefly list the most recent professional development activities

- Organized courses in Liquid Wastes Management at Continuing Education Center (UOT), June ١ -٥, ٢٠١٢.
- Organized courses in demulsifiers in the petroleum industry at Continuing Education Center(UOT), November ١ -٥, ٢٠١٣.
- Organized courses in at rotary evaporator unit Continuing Education Center (UOT), April ١ -٥, ٢٠١٤.