

Curriculum Vitae



1-Personal Information

Name : Dr. Niran K. Ibrahim :
Affiliation : Univ. of Technology/ Chemical Eng. Dep. :
(Included Phone and Email) : 009647906988410 - *neran_ibrahim@yahoo.com* :
Date of Birth : 1954 :
Place of Birth : Baghdad/Iraq :
Nationality : Iraqi :
Marital Status : married :

2-Scientific Rank: Professor

3-Research Interests

- Oil Refining and Gas Processing / Desulfurization processes.
- Transport Phenomena / Flue Gas Desulfurization Processes.

4-Education

Date	Discipline	Degree	Institution	Thesis Title
1997	Chem. Eng.	PhD	University of Technology/Iraq	Heat Transfer with Mass Transfer Effect in Forced Convective Boiling of Multi-Component Fluids
1981	Chem. Eng.	M.Sc.	University of Swansea/ UK	Interfacial Adsorption in Gas Chromatography
1976	Chem. Eng.	B.Sc.	University of Baghdad/Iraq	

5-Grants and Fellowships

- Fellowship for MSc study (1979)/ Ministry of Higher Education and Scientific Research

6-Academic Experience

1-Undergraduate Level

- Petroleum Refinery Eng.
- Gas Technology.
- Plant Design.
- Equipments Design.
- Eng. Mechanics.

- Eng. Statistics.
- Instrumentation and Measurements.

2-Postgraduate Level

- Multiphase Flow, PhD.
- Boundary Layer Theorem, PhD.
- Separation Processes, M.Sc.
- Petroleum Refinery Eng. (adv.), M.Sc.
- Gas Technology (adv.), M.Sc.
- Petroleum Refinery Eng. (adv.), H. Diploma.
- Gas Technology (adv.), H. Diploma
- Multiphase Flow, H. Diploma

7-Employment History

- Professor: 1/9/2009 - University of Technology/Chem. Eng. Dep.
- Assistant professor: 12/1993 - 1/9/2009 - University of Technology/ Chem. Eng. Dep.
- Lecturer: 8/1987-12/1993 - University of Technology/ Chem. Eng. Dep.
- Assistant Lecturer: 2/1982-8/1987 - University of Technology/ Chem. Eng. Dep.
- Assistant Eng.: 10/1976-2/1982 - University of Technology/ Chem. Eng. Dep.

8-License/Certification

- Society of Iraqi Engineers.
- Member of the editorial board of the Engineering and Technology- Univ. of Technology-Baghdad-Iraq.
- Member of the advisory committee of the Iraqi Journal for Chemical Eng. and petroleum - Univ. of Baghdad- Iraq.

9-Honors and Distinctions (if available)

- Women Testudo: University of technology: on Women Day (2014).
- Honor Certificate: 2nd Scientific Conference on New Technologies of Petroleum Refining (2012).
- Honor Certificate: 1st Scientific Conference on Petroleum Refining and Gas Technology (2011).
- Minister of Higher Education and scientific Research, Science Day (2010).
- Honor Certificate: 2nd Scientific conference-College of Eng.-Al Qadisya University, (2009) .

10-Skills and Qualifications

- Languages: Arabic & English
- Qualification certificate in computing/ Computer center-Univ. of Technology

11-Publications/ Books

1- Supervision

- H.DIPLOMA

1. Desulfurization of Al-Ahdab Crude Oil using Oxidation Assisted by Ultrasound Irradiation (2014).
2. Production of Ultra Low Sulfur Diesel Fuel (2013).
3. Reduction of H₂S Emission to the Atmosphere from Refinery Tail Gases (2004).
4. SO₂ Removal with Coal Scrubbing (2004).
5. A Comparative Study among the Different Methods Used For Diesel Fuel Desulfurization (2004).
6. Octane Improvers for Motor Gasoline (2002)
7. Computer Aided Selection and Design of Solid - Liquid Separators (2000).
8. Design of Heat Exchangers (2000).
9. Computer Aided Design of Refinery Furnaces (2000).
10. Estimation of the Physical Properties for Hydrocarbon Mixtures (2000).

- MSC

1. Upgrading of Iraqi Heavy crude oils (In progress).
2. Desulfurization of Fuel Oil using Advanced Oxidative Desulfurization, (In Progress).
3. Desulfurization of Diesel Fuel by Adsorption on Activated Carbon, (In Progress).
4. Desulfurization of Whole Crude Oils by Solvent Extraction (2013).
5. Removal of SO₂ Over Ni-Supported Activated Carbon in Fixed Bed Reactor (2012).
6. Desulfurization of Light Diesel Oil using Chloramine-T and Polymer Supported Imidation Agent (2010).
7. Removal of SO₂ in Dry Fixed and Fluidized Bed Reactors Using Granulated Activated Carbon (2010).
8. Experimental and Simulation of FGD using Slurry Reactor (2008).
9. Hydrodynamic Characteristics of Slug Flow (2007).
10. Sulfur Dioxide Removal in Coal Slurry Reactor (2007).
11. Absorption of So_x and No_x by Urea (2006).
12. Computer Aided Design of Fluid Catalytic Cracking Unit Using Iraqi Feedstock (2005).

13. A study on The Refinery Motor Gasoline Blends for the Unleaded Era (2004).
14. Studying the Capability of Bacteria in Degrading Phenanthrene and Some Petroleum Cuts (2004).
15. Absorption of Sulfur Dioxide by Urea (2004).
16. Biochemical Treatment for Wastewater from Al_Za'afraniyaa Tannery (2002).
17. Energy Optimization for an Ethane Cracking Unit (2002).
18. Advanced Computer Design of RFCC Unit (2002).
19. An Investigation of Convective Heat Transfer in Slug Flow Regime (2000).
20. Production of Gluconic Acid from D-Glucose by Immobilization Technique in Bioreactor (2000).

- PHD

1. Removal of Mixed Contaminants from Wastewater using Multi-Stage Loop Flow Flotation Column (2008).
2. Rate Based Model in Bubble-Cap Batch Distillation Column (2007).

2-Research

Under publication

1. Production of Low Sulfur Diesel using Advanced Desulfurization Methods.
2. Implementation of Artificial Neural Networks for Predicting Desulfurization Efficiency of Whole Crude Oils by Oxidative Desulfurization.
3. Application of Artificial Networks in Modeling SO₂ removal by Activated Carbon.

Accepted Manuscripts

1. Removal of SO₂ over Modified Activated Carbon in Fixed Bed Reactor: I, Effect of Metal Oxide Loading and Acid Treatment.
2. Removal of SO₂ over Modified Activated Carbon in Fixed Bed Reactor: II. Effect of Process Variables on the Characteristics of Mass Transfer Zone.

Published

1. Removal of Sulfur Dioxide From Gas Streams by Absorption Into Dilute Urea Solutions, Mahmood M.

Barbooti, Neran K. Ibraheem, Ihsan H. Dakhil, CAPAC-II - International Conference on Air Pollution and Control: 19-23 September 2011, Antalya, Turkey. Papers will be published in Journal of Atmospheric Pollution Research.

2. Removal of SO₂ in Dry Fixed and Fluidized Bed Reactors Using Granulated Activated Carbon. Eng & Tech. J., Vol. 29, No.14(2011). 2011
3. Desulfurization of Light Diesel Fuel Using Chloramine T and Polymer Supported Imidation Agent. First Scientific Conference on Modern Technologies in Oil and Gas Refining. Baghdad, Iraq, April(2011).
4. Removal of Nitrogen Dioxide and Sulfur Dioxide from Air Streams by Absorption in Urea Solution. Journal of Environmental Protection, Vol. 2, No. 2, April, p.175-185 (2011).
5. Study of Degrading Some Petroleum Cuts by Bacteria. J. Chem. Pharm. Res., 2010, 2(4):772-784.
6. Modeling & Simulation of Flue Gas Desulfurization Using Slurry of Fine Activated Carbon Particles. Eng. & Tech. J., Vol. 28, No.28(2010).
7. Fluoride Removal from Aqueous Solution by Adsorption with Coal Ash. Eng. & Technology J., Vol.28, No.18 (2010).
8. Removal of Copper Ions from Wastewater by Multistage Flotation. Eng. & Technology J., Vol.28, No.20(2010).
9. Rate-Based Model in Bubble-Cap Batch Distillation Column. Eng. & Tech. J., Vol. 27, No. 14, 2009, pp. 2566-2583.
10. Comparison between Equilibrium Model and Rate-Based Model for Simulation of Batch Zeotropic Distillation. Eng. & Tech. J., Vol. 27, No. 16, 2009, pp. 3129-3153.
11. Neural Network Predictions for the heat transfer coefficient in slug flow regime, 2nd Scientific conference-College of Eng.-Al Qadisya University, 19-20, Oct.(2009)
12. Sulfur Dioxide Removal in Coal Slurry Reactor. Eng. and Tech. J., Vol. 26, No. 4, (2008), pp.462-477.
13. Optimization of Biochemical Treatment of Tannery Wastewater. Iraqi J. of Chemical & Petroleum Engineering, Vol. 9 No.3 (September 2008) 37-43.

14. Computer Aided Design and Modeling of FCCU Processing Iraqi Feed Stock. Eng. and Tech. J. Vol. 25, No.7, 2007 (2007).
15. Process Variables Evaluation for an RFCC Unit. Eng. and Tech. J. (2005).
16. RFCC Riser Modeling Using 4- Lump Method. Eng. and Tech. J. (2005).
17. Multi-Variable Control of FCC Unit., 5th Jordanian Int. Chem. Eng. Conference, Amman, Jordan, (2005).
18. A study on The Refinery Motor Gasoline Blends for the Unleaded Era. 5th Jordanian Int. Chem. Eng. Conference, Amman, Jordan, (2005).
19. Circumferential Variation of Heat Transfer in Horizontal Flow Boiling. Eng. and Tech. J. (2004).
20. Measurements and Modeling of Pressure Drop during Horizontal Flow Boiling. Eng. and Tech. J. (2004).
21. Energy Optimization for Ethane Cracking Furnaces. Proc. Of Jordan Chem. Eng. Conf. IV, II, (2002).
22. Production of Gluconic Acid from D-Glucose by Immobilization Technique in Bio-reactor .Proc. of the First Int. Chem. Eng. Conf. ,Univ. of Jordan,(2001).
23. Heat Transfer With Mass Transfer Effect in Forced Convective Boiling of Multi-Component Fluids. The Engineer J. , No.2, June (2000).
24. An Investigation of Convective Heat Transfer in Slug Flow Regime. The first Scientific Conf. For Chem. Eng. and Petroleum Eng. (2000).
25. The Reduction of Water Consumption in Cooling Towers. Eng. and Tech. J. (1994).
26. The Performance of Film Filling Used in Cooling Towers. Eng. and Tech. J. (1993).
27. The Effect of Random Noise on the Closed Loop Response of Heat Exchangers. Eng. and Tech. J. (1992).
28. The Feasibility of Reducing Energy Consumption in Cooling Towers by Using Natural Draught Cooling Towers Instead of Mechanical Draught Cooling Towers. Eng. and Tech. J. (1989).
29. Computer Aided Technique of Vapor-Liquid Equilibrium Relations. Eng. and Tech. J. (1989).
30. Energy Conservation in Mechanical Draught Cooling Towers. Eng. and Tech. J. (1988).
31. Wetting Transition in Squalane on a Silanized Diatomaceous Gas Chromatographic Support. The J. of Physical Chemistry, Vol. 89, No. 12, (1985).

3-Books

- Industrial Science I - Ministry of Education / Industrial Education Association.

12-Conferences and Training

- CAPAC-II - International Conference on Air Pollution and Control: 19-23 September 2011, Antalya, Turkey.
- 1st Scientific conference on Modern Technologies in Oil and Gas Refining, 25-27 April (2011), Baghdad, Iraq.
- 2nd Scientific Conference of Al-Qadisia University, College of Engineering, (2009), Iraq.
- 5th Jordanian Int. Chem. Eng. Conference, Society of Jordanians Engineers, (2005), Amman, Jordan.
- Jordan International conference of Chemical Engineering, Jordanian University IV, II, (2002), Amman, Jordan.
- 1st International Chemical Engineering Conference, Univ. of Jordan, Society of Jordanians Engineers, Amman, Jordan (2001).
- 1st Scientific Conference for Chemical Engineering and Petroleum Engineering (2000), Univ. of Tikrit-Iraq.