

بسم الله الرحمن الرحيم

Republic of Iraq
Ministry of Higher Education
& Scientific Research
University of Diyala/Engineering College



جمهورية العراق
وزارة التعليم العالي والبحث العلمي
جامعة ديالى / كلية الهندسة

Scientific Bibliography And Publications (Curriculum Vitae)

A. Personal Data :

Full Name: AbdulMonem Abbas Karim.

Scientific Degree: Professor.

Present Position : Dean of College of Engineering / College of Engineering /
Diyala University.

Specialization: B.Sc. in Chemical Engineering / **1988.**

M.Sc. in Chemical Engineering / Petroleum & Petrochemicals / **1992.**

Ph.D. in Chemical Engineering / Thermodynamics – Phase Equilibrium at Supercritical
Fluid Conditions / **1999.**

Degrees Award body: Dept. of Chem. Eng. / University of Technology / Baghdad / Iraq.

Sex: Male.

Date and Place of Birth: 21/ 6 /1966 – Baquba – Diyala – Iraq.

Marital Status: Married with two children, girl and boy.

Religion: Moslem.

Nationality: Iraqi.

Languages Spoken: Arabic & English.

Unions : Member of Iraqi engineers union and teachers union.

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Postal Address: College of Engineering /University of Diyala / Baquba – Diyala – Iraq.

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Employment Years : (22) twenty two years in Ministry of Higher Education and Scientific Research /
Iraq.

First Appointment : Assistant lecturer in Dept. of Chemical Engineering / College of Engineering / Tikrit
University in 17 / 5 / 1992.

- He graduated to lecturer status in 29 / 7 / 1997.



- He graduated to assistant professor status in **16 / 7 / 2001**.
- He traveled from College of Engineering / Tikrit University to College of Engineering / Diyala University in **2006**.
- He graduated to professor status in **25 / 8 / 2008**.

B. Administrative Positions :

1. Responsible of scientific laboratories in the Dept. of Chem. Eng. / College of Engineering / University of Tikrit / Iraq, during the interval **2003 – 2006**.
2. Member and reporter of the scientific graduation committee in the College of Engineering / University of Tikrit / Iraq, during the interval **2003 – 2006**.
3. Member of the Engineering Consulting Bureau in the College of Engineering / University of Tikrit / Iraq, during the interval **2003 – 2006**.
4. Member and reporter of the scientific graduation committee in the College of Engineering / University of Diyala / Iraq, **2007 – 2010**.
5. Member of the scientific committee in the College of Engineering / University of Diyala / Iraq, from **2008** up to now.
6. Member of the executive editorial board and editor manager of Diyala Journal of Engineering Sciences, College of Eng., Diyala University, Iraq from **2008** up to now.
7. Deputy Dean of Scientific Affairs / College of Engineering / Diyala University / Iraq in 7 / 2 / **2011** up to 14 / 4 / **2012**.
8. Member of the central scientific graduation committee in the University of Diyala / Iraq in 9 / 2 / **2011** up to 15 / 4 / **2012**.
9. Dean of College of Engineering / College of Engineering / Diyala University / Iraq in 15 / 4 / **2012** up to now.
10. Chairman of the Board Engineering Consulting Bureau / College of Engineering / Diyala University / Iraq in 15 / 4 / **2012** up to now.
11. Chairman of the Board of Directors of the Office of Scientific and Consultative Services / College of Engineering / Diyala University / Iraq in 15 / 4 / **2012** up to now.

C. Teaching Experience :

1. Teaching the subjects reactors design (5 years), thermodynamics (5 years), engineering analyses (5 years), unit operation (1 year), petroleum refinery (1 year) and supervised of projects graduation yearly for undergraduate students in the Dept. of Chem. Eng. / College of Engineering / University of Tikrit / Iraq during the interval **1993 – 2001**.
2. Teaching the subjects fluid flow, analytical chemistry, and industrial management and supervised of project graduation for undergraduate students in the Dept. of Chem. Eng. / Faculty of Engineering and Petroleum / Hadramout University of Science & Technology / Yemen during the interval **2001- 2002**.
3. Teaching the subjects reactors design (2 years) and thermodynamics (2 years) for M.Sc. students in the Dept. of Chem. Eng. / College of Engineering / University of Tikrit / Iraq during the interval **2003 – 2006**.
4. Teaching the subjects mathematics (3 years) as external lecturer for undergraduate students (2nd year) in the College of Engineering / University of Diyala / Iraq during the interval **1998 – 2001**.
5. Teaching the subjects mathematics (4 years) as external lecturer for undergraduate students (2nd year) in the College of Engineering / University of Diyala / Iraq during the interval **2002 - 2006**.
6. Teaching in the College of Engineering / University of Diyala / Diyala/ Iraq from **2006** up to now.

D. The Participation in Scientific Conferences:

1. The 1st Technology Conference / University of Technology / Baghdad – Iraq / **28-30 March 1995**.
2. The 2nd Scientific Conference / College of Engineering / University of Tikrit / Tikrit – Iraq / **1 – 2 October 1996**.
3. The 2nd Conference for Environment Researches / Center of Environment Researches and College of Engineering / University of Al Mustansiriya / Baghdad – Iraq / **6 – 7 April 1999**.
4. The 1st Scientific Conference for Chemical and Petroleum Engineering / College of Engineering / University of Tikrit / Tikrit – Iraq / **28 – 29 November 2000**.
5. The 2nd Scientific Conference for Chemical and Petroleum Engineering / College of Engineering / University of Tikrit / Tikrit – Iraq / **24 – 25 December 2002**.
6. The 6th engineering Conference / College of Engineering / University of Baghdad / Baghdad – Iraq / **5-7 April 2009**.
7. The 1st Information Technology Conference / Computer Engineering & Information Technology Department / University of Technology / Baghdad – Iraq / **21-23 April 2009**.

8. The 2nd Scientific Conference of the College of Engineering / College of Engineering / University of Al-Qadisiya / Ad-Diwania – Iraq / **19-20 October 2009**.
9. The 2nd Regional Conference for Engineering Sciences / College of Engineering / Al-Nahrain University / Baghdad – Iraq / **1-2 December 2010**.
10. The 1st Conference for Engineering Sciences / College of Engineering / Diyala University / Baquba – Diyala - Iraq / **22-23 December 2010**.

E. Supervised Theses : Four M.Sc. students.

F. The Important Publications: Nineteen scientific researches.

1. **Heat Transfer During Film Evaporation of Hydrocarbon Mixtures in Turbulent Flow**, Eng. and Technology Journal, Technology University, Iraq, Vol.14 , No.9, **1995**, pp.7. (**in Arabic Language**).
2. **Simple Model of Vapour - Liquid Equilibrium for Carbon Dioxide and n-Paraffins Mixture**, Scientific Journal , Tikrit Univ. Eng. Science , College of Eng., Tikrit Univ., Iraq, Vol.4 , No.1 , **1997** , pp.169 - 184
3. **Carbon Dioxide Solubilities in Aromatic Compounds at High Pressures and Their Temperature Dependence**, Eng. and Technology Journal, Technology University, Iraq, Vol.18 , No.5, **1999**, pp.475 - 489
4. **New Correlation For Predicting The Interaction Constant between CO₂ and n-Paraffins From C₅ up to C₂₀ in Soave – Redlich – Kwong Equation of State**, Scientific Journal , Tikrit Univ. Eng. Science , College of Eng., Tikrit Univ., Iraq, Vol.7 , No.3 , **2000** , pp.57 – 72.
5. **Phase Equilibrium Study for The Separation Of Liquid Components Using Supercritical Carbon Dioxide**, Scientific Journal , Tikrit Univ. Eng. Science , College of Eng., Tikrit Univ., Iraq, Vol.8 , No.2 , **2001** , pp.87-104.
6. **Phase Equilibrium Study for The Separation of Solid component Using Supercritical Carbon Dioxide Entrained with Liquid Solvent**, Al-Muhandis Journal, The Iraqi Society of Engineers, Iraq, Serial-146 – No.2/ June, **2001**, pp.52 – 73.
7. **Reduction of Sulphur Dioxide Emission With Flue Gas Produced From Combustion of Fuel Oil Using Packed Bed Reactor**, Al-Muhandis Journal, The Iraqi Society of Engineers, Iraq, Serial-147 – No.3/ Sept., **2001**, pp.68 – 84.

8. **Thermodynamic Model for High Pressure Phase Behavior of Carbon Dioxide in Several Physical Solvents at Different Temperatures**, Tikrit Journal of Eng. Sciences, College of Eng., Tikrit Univ., Iraq ,Vol.15, No.2, June **2008**,. pp: 32-50.
9. **Phase Equilibria Modeling for Separation of Solid Mixtures by Supercritical Carbon Dioxide on Excel**, Diyala Journal for Applied Researches (Diyala Univ., Iraq, Vol.4, No.1, **2008**. pp: 119-150
10. **Influence of Property Estimation Techniques on Thermodynamic Modeling of Solubility of C.I. Disperse Orange 30 Dye in Supercritical CO₂**, AL-Fatih Journal, No.36, October **2008**, College of Basic Education, Diyala Univ., pp.70-88.
11. **Effect of Operating Conditions on Hydrodesulfurization of Vacuum Gas Oil**, Diyala Journal of Engineering Sciences, College of Eng., Diyala Univ., Iraq, Vol.1, No.1, December **2008**. pp.19-31.
12. **Kinetic Models Study of Hydrodesulphurization Vacuum Distillate Reaction**, Tikrit Journal of Eng. Sciences, College of Eng., Tikrit Univ., Iraq ,Vol.16, No.1, March **2009**, pp: 1-13.
13. **Study of Pitting Corrosion Behavior For 1100 Aluminum Alloy in 3% NaCl Solution**, Diyala Journal of Engineering Sciences, College of Eng., Diyala Univ., Iraq, Vol.2, No.1, **2009**. pp.1-27, (in Arabic Language).
14. **Artificial Neural Networks Modeling of Phase Equilibrium for The Separation of Phenanthrene Using Supercritical CO₂** , The First Information Technology Conference / Computer Engineering & Information Technology Department/ University of Technology / Baghdad – Iraq / 21-23 April, **2009**, Sciences Fields, Paper No.1, ID 504.
15. **Phase Equilibrium Study for the Separation of Solid Components Using Supercritical Carbon Dioxide**, *The Open Thermodynamics Journal*, **2010**, **4**, 201-211, Bentham Open.
<http://www.benthamscience.com/open/totherj/openaccess2.htm>
16. **Correlation of Experimental Vapor-Liquid Equilibrium Data of CO₂ - Triethylene Glycol Monomethyl Ether System With Different Equations of State**, Proceeding of the 2nd Regional Conference for Engineering Sciences / College of Engineering / Al-Nahrain University / Baghdad – Iraq / 1-2 December, **2010**, Part 4, pp.187-201.
17. **Solubility Prediction of CO₂ In Several Physical Liquid Solvents Using CHEMCAD and HYSYS Simulators**, Diyala Journal of Engineering Sciences (Special Issue) / College of Engineering / Diyala University / Baquba – Diyala - Iraq , **2010**, pp.356-373.

18. **Comparison Study for the Solubility Prediction of Phenanthrene in Supercritical CO₂ Entrained with n-Pentane When Using Equation of State and Artificial Neural Networks**, Emirates Journal for Engineering Research, Vol.16, No.1, **2011**, pp.81-90.
19. **Vapor-Liquid Equilibrium Prediction by PE and ANN for the Extraction of Unsaturated Fatty Acid Esters by Supercritical CO₂**, ARPJ Journal of Engineering and Applied Sciences, Vol.6, No.9, September, **2011**, pp.122-134.