

# **Curriculum Vitae**

## **Mohammad A. Taher Al-Mayyahi**

### **Personal Information:**

**Full Name:** Mohammad A. Taher

**Family name:** Al-Mayyahi

**Date of birth:** 27.03.1973

**Place of birth:** Basra / IRAQ

**Languages:** Arabic (mother tongue), English (fluent).

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### **Academic qualification**

Ph.D. (Chemical Engineering - Petroleum Refining Engineering), Monash University, Australia, 2013.

M.Sc. (Chemical Engineering - Unit Operations), Basrah University, Iraq, 1998.

B.Sc. (Chemical Engineering), Basrah University, Iraq, 1996.

### **Present employment**

Head of Chemical Engineering Department, College of Oil and Gas Engineering, Basrah University for Oil and Gas.

### **Previous employments and professional experience**

2014-2015: Head of Environmental and pollution engineering Department, Basrah Engineering Technical College.

2005-2006: Head of Petrochemical Engineering Department, Basrah Engineering Technical College.

2000-2004: Research Engineer, State Company for Petrochemical Industries (SCPI), Basrah.

### **Professional Appointments**

2015-Present: Lecturer, College of Oil and Gas Engineering, Basrah University for Oil and Gas.

2004-2015: Lecturer, Basrah Engineering Technical College.

2000-2004: Research Engineer, State Company for Petrochemical Industries (SCPI), Basrah.

### **Teaching Commitments:**

Chemical Engineering Principles

Heat and Mass Balance

Chemical Engineering Thermodynamics

Unit Operations

Reaction Kinetics

Mass Transfer

Engineering and Numerical Analysis

### **Publications and Conferences:**

- 1- A Novel Graphical Approach to Target CO<sub>2</sub> Emissions for Energy Resource Planning and Utility System Optimization, Conference paper, Published in the proceeding of ECOS2011, Serbia
- 2- A Novel Graphical Approach to Target CO<sub>2</sub> Emissions for Energy Resource Planning and Utility System Optimization, Journal paper, Applied Energy 104 (2013) 783-790
- 3- CO<sub>2</sub> emissions targeting for petroleum refinery optimization, Book chapter in "Multi-Objective Optimization in Chemical Engineering: Developments and Applications". John Wiley & Sons, 2013.
- 4- Minimum CO<sub>2</sub> emissions to maximize product revenue from the CDU using multi-objective optimization Conference paper Published in the proceeding of PSE ASIA 2010, Singapore

- 5- Energy optimization of crude oil distillation using different designs of pre-flash drums, Applied Thermal Engineering 73 (1), 1204-1210, 2014.
- 6- Effect of crude type on the reduction cost of CO<sub>2</sub> emissions within the CDU, Conference paper Published in the proceeding of CHEMECA 2010, Adelaide, Australia.
- 7- Investigating the trade-off between operating revenue and CO<sub>2</sub> emissions from crude oil distillation using a blend of two crudes Journal Paper Fuel 90 (2011) 3577-3585.
- 8- Multi-objective optimization of fluidized bed catalytic cracker unit to minimize CO<sub>2</sub> emissions Conference paper Published in the proceeding of CHEMECA 2011, Sydney, Australia.
- 9- Investigating the effects of energy integration of FCC and CDU on the total CO<sub>2</sub> emissions using multi-objective optimization Conference paper Published in the proceeding of APCChE2011, Singapore.
- 10- The effect of flame treatment on watability of polyethylene. Fifth international conference on polymer materials, University of Basrah, November, 2001.
- 11- Prediction of optimum operating conditions for VCM refrigeration unit, Iraqi J. Polymers, Vol. 7, No. 1, 93-100,2003.
- 12- The effect of chlorinated polyethylene wax on resistance to flame for polyethylene. Ninth scientific conference for foundation of technical education, Baghdad, Iraq, March, 2005.

**Research Interests:**

Process and Energy Integration, Multi-Objective Optimization, Process Modeling and Simulation, Economic and environmental analysis of energy recovery.