Prof. Tareq Albahri

1. Name and contact information

Name: Tareq A. Albahri
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2. Education

Degree	Field	Institution	Year
PhD.	Chemical Engineering	University of Texas at Austin	Dec, 1999
M.S.	Chemical Engineering	Kuwait University	Oct, 1994
B.S.	Chemical Engineering	Kuwait University	Jan, 1987

3. Academic Experience

Institution	Designation	Year/period
Kuwait university	Professor	2017 - Present
Kuwait university	Associate Professor	2007 - 2017
Kuwait university	Assistant Professor	2000 - 2007

4. Non-academic experience

Organization	Designation	Year
Kuwait National Petroleum Company, Kuwait	Process Engineer	Feb, 1987 - Jan, 1994

5. Membership in professional organization

- Kuwait society of engineers, Kuwait, member, 2003 – present.
- American Chemical Society; USA, member, 1997 – present.
- American institute for chemical engineers, USA, member, 2000 – present.

6. Honors and awards

- Recipient of eight Certificates of merit and registered patent Financial Awards from Kuwait University President, for research excellence and achieving a Patent for a scientific invention.
- Received three Financial Awards for unfunded research project, from Kuwait university research administration.
- Silver Medal for second best medical invention in the world, The 35th international exhibition of inventions (Palexpo), Geneva, Switzerland, Apr 2007.

7. Publications and presentations (2013 to present)

- Chafik Belghit, Yasmina Lahiouel, Tareq A. Albahri, Developing Correlations for Critical Properties Prediction of Pure Hydrocarbons and Algerian Petroleum Fraction, Physics and

Chemistry of Liquids (GPCH) 2022 , 60:5, 728-737, DOI: 10.1080/00319104.2022.2041013, (https://doi.org/10.1080/00319104.2022.2041013).

- Tareq A. Albahri, Accurate prediction of some properties of petroleum fuels and coal liquids, International Journal of Oil, Gas and Coal Technology, Vol. 21, No. 2, 2019. (https://doi.org/10.1504/IJOGCT.2019.099588)
- Tareq A. Albahri, Cheng Seong Khor, Mohamed Elsholkami, Ali Elkamel, (2019) "A Mixed Integer Nonlinear Programming Approach for Petroleum Refinery Topology Optimisation", Chemical Engineering Research and Design 143, 24-35.
- T. A. Albahri, Ghanima Al-Sharrah, Cheng Seong Khor, Ali Elkamel, (2018) "Grassroots petroleum refinery configuration for heavy oil processing", Petroleum Science & Technology. 37(4), 275-281.
- Tareq A. Albahri, Cheng Khor, Mohamed Elsholkami, Ali Elkamel, (2018) "Optimal Design of Petroleum Refinery Configuration Using a Model-Based Mixed-Integer Programming Approach with Practical Approximation", Industrial & Engineering Chemistry Research 57 (22), 7555–7565.
- Chafik Belghit, Yasmina Lahiouel, Tareq A. Albahri, (2018) "New Empirical Correlation for Estimation of Vaporization Enthalpy of Algerian Saharan blend Petroleum Fractions", Petroleum Science and Technology, 36(15), 1181-1186.
- Tareq A. Albahri, Nourah A. M. Ismael, (2018) "SGC based prediction of the flash point temperature of pure compounds", Journal of Loss Prevention in the Process Industries, 54, 303-311.
- Hissa Al-Mullah, Tareq A. Albahri, (2017) "Estimating the Kinematic Viscosity of Petroleum Fractions", the International Journal of Thermophysics, 38 (4) 1-19.
- Hissa Al-Mullah, Tareq A. Albahri, (2016) "Predicting the Properties of Petroleum Blends", Petroleum Science and Technology, 35, (8) 775-782.
- Tareq A. Albahri, (2016) "Prediction of the Upper Flammability Limit of Pure Compounds", Asian Journal of Applied Science and Engineering (AJASE), 5 (1) 59-70.
- Tareq A. Albahri, (2015) "MNLR and ANN Structural Group Contribution Methods for Predicting the Flash Point Temperature of Pure Compounds in the Transportation Fuels Range", Process Safety and Environmental Protection, 93,182–191.
- Tareq A. Albahri, (2014) "Specific Gravity, RVP, Octane Number, and Saturates, Olefins, and Aromatics Fractional Composition of Gasoline and Petroleum Fractions by Neural Network Algorithms", Petroleum science and Technology, 32, 1219-1226.
- Tareq A. Albahri, (2014) "Accurate Prediction of the Solubility Parameter of Pure Compounds from their Molecular Structures", Fluid Phase Equilibria, 379, 96–103.
- Tareq A. Albahri, (2014) "Accurate Prediction of the Standard Net Heat of Combustion from Molecular Structure", Journal of Loss Prevention in the Process Industries, 32, 377-386.
- Tareq A. Albahri, (2013) "Method for predicting the standard net heat of combustion for pure hydrocarbons from their molecular structure", Energy Conversion & Management, 76, 1143-1149.
- Tareq A. Albahri, (2013) "Prediction of the lower flammability limit percent in air of pure compounds from their molecular structures", Fire Safety Journal, 59, 188-201.
- Tareq A. Albahri, Abdullah F. Aljasmi, (2013) "SGC Method for Predicting the Standard Enthalpy of Formation of Pure Compounds from their Molecular Structures", Thermochemica Acta, 568, 46-60.
- Tareq A. Albahri, Dalal A. Alashwak, (2013) "Modeling of Pure Compounds Surface Tension using QSPR", Fluid Phase Equilibria, 355, 87-91.

- Tareq A. Albahri, A. F. Aljasmi, "SGC Method for Predicting the Standard Enthalpy of Formation of Pure Compounds from their Molecular Structures", Thermochemica Acta 2013, vol. 568, 46-60
- Tareq A. Albahri, "Prediction of the lower flammability limit percent in air of pure compounds from their molecular structures", Fire Safety Journal, vol. 59 (2013) pp. 188-201.
- Tareq A. Albahri, "Prediction of the Aniline Point Temperature of Pure Hydrocarbon Liquids and their Mixtures from Molecular Structure", Journal of Molecular Liquids 2012, October, vol. 174, p. 80-85.

8. **Funded Research**

EC04/01 – Molecularly explicit characterization of light petroleum fractions.

9. **Supervised Thesis**

- Fatimah Hussain, "Predicting the properties of pure hydrocarbons from molecular structure", Tareq A. Albahri (Supervisor), Kuwait University, Jan 2013 – March 2019.
- Hissa Almullah. "Properties of Petroleum Fractions and Petroleum Blends", Tareq A. Albahri (Supervisor), Kuwait University, Sep 2014 – July 2016.
- Noura Ismael, "Predicting the flash point temperature of pure substances from molecular structure", Tareq A. Albahri (Supervisor), Kuwait University, Sep 2014 – July 2016.
- Amer Alqattan; "Estimation of Some Specifications Related to Quality of Petroleum Fuels", M. R. Riazi (supervisor) and Tareq A. Albahri (co-supervisor), Chemical Engineering Department, Kuwait University, Sep 2000 – June 2003.

10. **Consultations**

- Kuwait Ministry of Interior, Technical Investigation of an arson, the General Department of Investigations, April 2017.
- Kuwait Foundation for the Advancement of Science (KFAS), Establishing a new chemistry lab at Kuwait Science Club (KSC), Kuwait University, March 2008.
- Patent consultant for the Technical Committee for Shaikha Fadia Saad Al-abdulla Al-salem Al-Sabah 7th contest on Energy and Water Conservation. September 2006 – April 2007.
- Kuwait Foundation for the Advancement of Science, Cultural office, May 2006.
- Kuwait Awqaf Public Foundation – Awqaf Fund for Scientific and Social Development, 2003.
- Kuwait Science Club (KSC) – Kuwait Inventors Bureau – Head of the Technical Committee. Since April 2003 – 2005.
- Business opportunities in Kuwait ISP market, Broadband Central USA, Utah, USA, 2004.
- Mutual Fund manager - Kuwait Stock Exchange Market 2004-2005.
- Kuwait National Petroleum Co., Dec. 2003-2004.
- Financial and Investment Consultancies - Kuwait Stock Exchange Market 2003-2004.
- Peer Reviewer for several scientific journals including Energy and Fuel, Experimental Thermal and Fluid Science, Fuel Journal, Industrial & Engineering Chemistry Research, - Korean Journal of Chemical Engineering, Petroleum Science and Technology, - Research Journal of Chemistry and Environment.

11. **Training Courses (taught for engineers)**

- Professional Development, Mar. 2004, 2005, 2007, 2008, 2010, 2011, 2013, 2014.

- General Refinery Knowledge, Kuwait National Petroleum Co., Dec. 2003, May 2004, June 2004.