

Dr. Bader H. Albusairi

Name and contact information

Name: Bader H. Albusairi
Rank: Assistant Professor
Address: Office Room Number: S03D1145., Chemical Engineering Department, College of Engineering and Petroleum, Kuwait University (Al-Shadadiya)
E mail: bader.albusairi@ku.edu.kw

Education

Degree	Field	Institution	Country	Year
PhD.	Chemical Engineering	Lehigh University	USA	2004
M.S.	Chemical Engineering	Lehigh University	USA	1999
B.S.	Chemical Engineering	Kuwait University	Kuwait	1996

Academic Experience

Institution	Designation	Country	Year/period
Kuwait University	Assistant Professor	Kuwait	2004 - Now
Kuwait University	Scholarship Teaching Assistant	Kuwait	1997 – 2004
KISR	Research Engineer	Kuwait	1996 - 1997

Non-academic experience

Office/Organization	Designation	Year
Vice Dean for Student Affairs / COEP	Acting Vice Dean	2019 – 2022
Guidance and Counseling Student Office	Director	2015 – 2017
Vice Dean for Student Affairs / COEP		2018 – 2019
Engineering Training and Alumni Center / COEP	Director	2017 – 2018
Office of Academic Assessment / COEP	Director	2011 – 2015
Chemical Engineering Department Council	Secretary	2012 – 2014

Membership in professional organization

Society Name	Type of Membership	Year
Kuwait Engineering Society	Lifetime Member	2004 – Present
AIChE	Member	1996 – 2019
Kuwait Union for Engineer	Member + Board	2010 – 2020

Honors and awards (Most Recent/Distinguished)

Honor/Award	Date
1st Place in KFAS Competition for Chemical Engineering, 45th Engineering Design Exhibition. Project Title: Al-Durrah	Jan., 2024
2nd Place for Innovation and Excellence Competition from BOEING, 45th Engineering Design Exhibition. Project Title: Aquaponic Farm	Jan., 2024
3rd Place for Environmental Sustainability Competition from KFH, 45th Engineering Design Exhibition. Project Title: Brine Into Medicine	Jan., 2024
1st Place in KFAS Competition for Chemical Engineering, 41st Engineering Design Exhibition. Project Title: Greywater Recycle and Oxygen Production for Colony	Jul., 2022
2nd Place in KFAS Competition for Chemical Engineering, 41st Engineering Design Exhibition. Project Title: Agri-xylene	Jul., 2022
1st Place in KFAS Competition for Chemical Engineering, 39th – 40th Engineering Design Exhibition. Project Title: DOWASTIC	Dec., 2021
3rd Place in KFAS Competition for Chemical Engineering, 39th – 40th Engineering Design Exhibition. Project Title: Bio-lubricant	Dec., 2021

Honor/Award	Date
1st Place in KFAS Competition for Chemical Engineering, 36th Engineering Design Exhibition. Project Title: SeaShell Medicine	Jun., 2019
1st Place in BOEING Competition, 36th Engineering Design Exhibition. Project Title: Production of Bio-Plastic from Shrimp Waste	Jun., 2019
1st Place in KNPC Competition, 36th Engineering Design Exhibition. Project Title: SeaShell Medicine	Jun., 2019

Journal Publications (Most Recent/Distinguished)

- Albusairi, B. H., Albeeshi, A. (2024). Heat Enhancement in a Short Air Channel with Solid and Permeable Baffles, Heat Transfer Engineering, (Accepted)
- Albusairi, B. H., Almusallam, A. S., Ali, S. H., Merchant, S. Q., & Bumajdad, A. Y. (2024). Production of esters with numerous applications: Kinetics of Dowex 50W catalyzed transesterification of methyl acetate with three- and four-carbon structured alcohols. The Canadian Journal of Chemical Engineering, 102(7). doi:<https://doi.org/10.1002/cjce.25203>
- Albusairi, B., & Al-Mulla, A. (2022). Non-Isothermal Models to Determine the Rheological Constants of Different Kuwaiti Crude Oils. Journal of Engineering Research, 10(1A), 101-112.
- Alfadhel, K., Al-Mulla, A., & Al-Busairi, B. (2017). Development and characterization of novel polybutylene nanocomposites. Journal of Composite Materials, 51(1), 95-108. doi:10.1177/0021998316637130
- Albusairi, B. H., & Al-Mulla, A. (2017). A study of flow properties of Kuwaiti crude oil obtained from different sources. Journal of Petroleum Science and Technology, 7(1), 79-90.

Conference Publications and Presentations (Most Recent/Distinguished)

- Al-Busairi, B. H., & Awad, M. (2018). Rheology of Novel Blends Containing Polybutylene/Linear Low Density Polyethylene Composites. Paper presented at the 2018 AIChE Annual Meeting.

Recent professional development activities

Role in Service	Service Type	Surface Title / Description	Year
Lecturer	Training Course	Integrated Training Program for Gas Manufacturing Engineers	2024
Evaluator and Committee member	Arab Union for Engineers Accreditation Board	Member and Evaluator in the Education Committee for Engineering Education Committee in the Federation of Arab Engineers	2011 - 2021
Chair of Engineering Colleges Accreditation Team	Arab Union for Engineers Accreditation Board	Chair for the (Egyptian – Lebanese – Jordanian) Engineering Colleges Accreditation Teams formed by Arab Engineering Union to evaluate some of engineering colleges in Egypt as part of their accreditation process Assigned by the Engineering Education Committee for Engineering Education Committee in the Federation of Arab Engineers	2013 - 2021
Vice-Chair Judging Committee	Fair	International Invention Fair in the Middle East (IIFME) 10th, 11th, 12th and 13th IIFME	2018 – 2023
Judging Committee Member	Scientific Competition and	Kuwait Competition for Science and Engineering	2017 – 2020

Role in Service	Service Type	Surface Title / Description	Year
	Fair		
Scientific Committee member	Scientific Competition and Fair	Kuwait Competition for Science and Engineering (5th to 10th)	2017 – 2024
Lecturer	Training Course	Water Chemistry and Analysis	2014
Referee	Scientific Competition	Intel/ISEF, Los Angeles, USA	2014
Coordinator + Judge	Scientific Competition	2nd College of Engineering and Petroleum High School Scientific Competition	2014

Supervision of graduate students (Most Recent/Distinguished)

Title	Type	Name of Student	Date of Completion
Production of Caffeine from Spent Coffee Ground	Thesis	Aminah W. Alhammadi	Mar., 2024
Assessment of Indoor Air Quality in Auto Repair Workshops	Thesis	Lama N. Alotaibi	Jan. 2024
Viscosity Changes and Rheological Modeling of Palm Olein and Coconut Oils and Their Blends after Heating and Repeated Frying	Thesis	Shahad F. Alhasan	Oct., 2023
Biodiesel Production from Spent Coffee Grounds	Thesis	Maryam H. Almutairy	Jul., 2023
Heat Transfer Enhancement in Heating Air Channel by Inclined Permeable Aluminum Foam Baffle	Thesis	Fajer B. Shabakouh	Jun., 2023
Optimization of Heat Exchanger in a Grooved Pipe	Thesis	Fatmah A. Mohammad	Jun., 2023
Chemical Treatment of Rubberized Concrete	Thesis	Marya F. Afyouni	May, 2023
Chemically Modified Saw Dust for the Adsorption of Metal Ions from the Effluent of a Multistage Flash Desalination Plant	Thesis	Hanna Alajmi	Dec., 2021
Adsorption of Alizarin Red S Dye using an Adsorbent developed from Waste Car Tires	Thesis	Ahmad Alrashidi	Sep., 2021
Rheological / Thermo Physical Study for Antifreeze mixtures	Thesis	Yousef S. Alraqum	2019
A Study on Synthesis of di-Component Blends Containing Polybutylene and High-Density Polyethylene and its Detailed Characterization	Thesis	Noura F. Alzoubi	Dec., 2018
Fouling of Hydrocarbons in Heat Exchangers	Thesis	Afnan Alshamlan	2018
Novel Adsorbents using Activated Carbon Derived from Sidra Tree	Project	Batoul Alsayegh	2020
Rheological Characteristics of Different Compositions of Gear and Engine Oil	Project	Sherifah Alkandari	2019
The rheological properties of compatibilized and un-Compatibilized blends of LLDPE/PB wood flour	Project	Mariam Awad	2018
Dependence of Shear Stress, Viscosity and Density of Different Synthetic Automotive Engine Oils on Temperature	Project	Sarah Alshatti	2018