

Dr. Mohammed M. Alajmi

Name and contact information

Name: Mohammed M. Alajmi
Rank: Assistant Professor
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Education

Degree	Field	Institution	Country	Year
PhD.	Chemical Engineering	RICE University	USA	2022
M.S.	Chemical Engineering	RICE University	USA	2019
B.S.	Chemical Engineering	Arizona State University	USA	2017

Academic Experience

Institution	Designation	Country	Year/period
Kuwait University	Assistant Professor	Kuwait	2022 - Present

Membership in professional organization

Society Name	Type of Membership	Year
Kuwait Society of Engineers (KSE)	Member	2022 - Present
Faculty Member Association, Kuwait University	Faculty Member	2022 - Present
Chemical Engineering Student Society (ChESS)	Coordinator	2023 - 2024
American Institute of Chemical Engineers (AIChE)	Member	2017 - Present

Honors and awards (Most Recent/Distinguished)

Honor/Award	Date
Teaching Assistant Award in the Chemical and Biomolecular Engineering Department at RICE University.	December 2019
Scholarship for Master and PhD, Kuwait University	August 2018
Scholarship for Master, Ministry of Higher Education	August 2017
Moeur Award, for maintaining a GPA of 4.0 throughout all of the semesters in Arizona State University	2013-2017
Dean's List for academic excellence in all of the semesters in Arizona State University	2013-2017
Scholarship for Bachelor, Ministry of Higher Education	August 2012
One of the top 50 students in Kuwait chosen by the Ministry of Higher Education in Kuwait.	June 2012

Journal Publications (Most Recent/Distinguished)

- Alajmi, M. M., Sisco, C. J., Abutayya, M. I., Vargas, F. M., & Chapman, W. G. (2022). Extension of Cubic-Plus-Chain Equation of State: Incorporating Short-Range Soft Repulsion for Nonassociating Mixtures. *Industrial & Engineering Chemistry Research*, 61(23), 8293-8301.

- Sisco, C. J., **Alajmi, M. M.**, Abutaqiya, M. I., Vargas, F. M., & Chapman, W. G. (2020). Cubic-Plus-Chain III: Modeling Polymer–Solvent Phase Behavior with the Chain-Modified Cubic Equation of State. *Industrial & Engineering Chemistry Research*, 59(35), 15752-15757.
- Sisco, C. J., **Alajmi, M. M.**, Abutaqiya, M. I., Vargas, F. M., & Chapman, W. G. (2023). Cubic-Plus-Chain IV: A General Framework for the SAFT-based Chain + Association Modification to the Cubic Equation of State. *Industrial & Engineering Chemistry Research*, 62(48), 20899-20910.

Other Publications

- **Alajmi, M. M.** (2019). Modeling Polymer Phase Behavior with the Cubic-Plus-Chain (CPC) Equation of State (Master dissertation, Rice University).
- **Alajmi, M. M.** (2022). (Proposing a New Equation of State to Model Associating Polymer Systems (seminar) , Rice University).
- **Alajmi, M. M.** (2022). Phase Behavior Model of Complex Fluids: Associating Solvents to Polymers (Doctoral dissertation, Rice University).

Recent professional development activities

Role in Service	Service Type	Surface Title / Description	Year
Specialist	Scientific	Worked with Environment Public Authority in a case	2023
Evaluator and Committee member	Scientific Competition and Fair	Worked as a committee member to evaluate senior design projects in different engineering departments in the Engineering Design Expo	2022-2024
Advisor	Student affairs	Chemical Engineering Student Society (ChESS)	2023-2024
Lecturer	Training Course	Participated in natural gas course by giving several lectures to Kuwait Petroleum Company engineers about natural gas liquefaction technologies, natural gas conditioning, and recovery of natural gas liquids (NGL)	2024