1. Name and contact information

Name:	Abdulwahab Salem Almusallam
Rank:	Professor
Address:	Chemical Engineering, College of Engineering and Petroleum,
	Kuwait University, Kuwait.
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2. Education

Degree	Field	Institution	Year
PhD.	Chemical Engineering	University of Michigan/Ann Arbor	2002
M.Sc.	Chemical Engineering	Case Western Reserve University	1998
B.Sc.	Chemical Engineering	Case Western Reserve University	1995

3. Academic Experience

Institution	Designation	Year/period
Kuwait university	Professor	2021 - Now
Kuwait university	Associate Professor	2012-2021
Kuwait University	Assistant Professor	2003-2012
University of Michigan/Ann Arbor	Research Assistant	1998 - 2002

4. Non-academic experience

Organization	Designation	Year	
Chemical Engineering Department	Chairman	2017 - 2021	
	Le Mans		
Sabbatical leave	Universite',	2016-2017	
	France		
Research Office, College of Engineering and	Diractor	2013 2016	
Petroleum	Director	2013 - 2010	
Nanotechnology Research Facility, College of	Director	2009 2014	
Engineering and Petroleum	Difector	2009 - 2014	

5. Membership in professional organization

• Society of Rheology

6. Honors and awards

- Awarded first place prize for Kuwaiti students in secondary schools in Kuwait, 1988.
- Awarded a scholarship to study chemical engineering from Arabian Oil Company, 1991.
- Honor roll student at Case Western Reserve University.
- Member in Tau Beta Pi honor society.

- Attained Magna Cum Laude in Chemical Engineering B.S. degree from Case Western Reserve University, 1995.
- Awarded a scholarship from Kuwait University to study M.Sc. and Ph.D. in Chemical Engineering, 1996.
- Received a research award from Research Administration-Kuwait University for publishing a scientific paper in the top 25% in its field, 2010, for a paper titled "Effect of interfacial curvature on the adsorption of copolymer stabilized nanoparticles of different copolymer compositions: A Brownian dynamics study", 2010.
- Received a research award from Research Administration-Kuwait University for publishing a scientific paper in the top 25% in its field, 2013, for a paper titled "The Modified Constrained Volume Model Predictions in Shear Flow at Non-Unity Viscosity Ratio Values", 2013.
- Received an award for Excellent final report, for Project funded by Kuwait University entitled: "Block copolymer -stabilized nanoparticles in two-phase media: Geometrical considerations", 2010.

7. Service activities (within and outside of the institution)

- Session chair at the first GCC engineering symposium, held at Kuwait University, October 2023.
- Member at special committee for investigating quality of education, ministry of education, 2024.
- Member at search and nomination committee for applied sciences and engineering prize from KFAS, 2024.
- Presented lectures about nanotechnology at various highshools in Kuwait from 2010 to 2014.
- Presented a lecture entitled "Nanotechnology at Kuwait University: Capabilities and Potential Research Opportunities", KPC workshop on Applications of Nanotechnology in the Oil and Gas Industry Workshop in December 2014.
- Presented a lecture entitled "Neutron Beam Applications in Materials Sciences and Engineering", First Workshop on Nuclear Technology Applications in the State of Kuwait held in KISR in April 2013.
- Member, Kuwait University Scientific Poster Event, 2021
- Coordinator for Kuwait University Scientific Poster Event, 2016.
- Member in steering committee of School of Dentistry General Facility Research Unit, October 2015 – 2016
- Department council secretary 2007 2012
- Associate Professors representative in the College of Engineering Council, 2013
- Referee, the 22nd Capstone Project Exhibition, Chemical Engineering Department, Kuwait University, Sponsored by Kuwait Foundation for the Advancement of Sciences, June 2012.
- Member, Scientific committee, Arab School for Science and Technology, 2010.
- Member, Consultative Scientific Committee, Sabah Al-Ahmad Center for Talent and Innovation, 2012.
- Reviewer, Romanian National Research Council, August 2012.
- Reviewer for various scientific journals: Polymer Engineering and Science (2023), Journal of Petroleum Science and Engineering (2021), Rheologica Acta (2007, 2010, 2020, 2021), Journal of Rheology (2014, 2016), Soft Matter (2010, 2011, 2013, 2014),

Microfluidics and Nanofluidics, (2010), Journal of Colloid and Interface Science (2008), Phys. Chem. Chem. Phys. (2010).

8. Publications and presentations

- Albusairi, B.H., Almusallam, A.S., Ali, S.H., Merchant, S.Q. and Bumajdad, A.Y., Production of Esters with Numerous Applications: Kinetics of Dowex 50W Catalysed Transesterification of Methyl Acetate with Three and Four-Carbon Structured Alcohols, Canadian Journal of Chemical Engineering, 2024.
- Almusallam, A.S., Bini, T.B., Predictions of the Behavior of a Single Droplet and Blends Composed of Newtonian/Viscoelastic Minor Phase and Viscous Major Phase Subjected to Oscillatory Shear Flow, Journal of non-Newtonian Fluid Mechanics, 2023, 105146.
- Almusallam, A.S., Dhafallah, E., Sidhu, J., Large amplitude oscillatory shear of doughs, based on different flours, modeled using the fractional K-BKZ framework, Rheologica Acta, 2023, 1-14.
- Sidhu, J.S., Zafar, T., Almusallam, A., Ali, M. and Al-Othman, A., 2023. Effect of substitution of wheat flour with chickpea flour on their physico-chemical characteristics. Arab Gulf Journal of Scientific Research.
- Almusallam, A.S., T.A. Zafar, J.S. Sidhu, Oscillatory and Thermo Rheological Studies of Wheat and Chickpea Flour Blended Doughs for Producing Arabic Flat Bread. Journal of Engineering Research, 2022, 10.36909/jer.15023.
- Almusallam, A.S. and T. B. Bini, Modeling Vorticity Stretching of Viscoelastic Droplets During Shearing Flow. Journal of Rheology, 2021, 65(6):1327-1345.
- Daffallah, I.E. and A.S. Almusallam, Study of Non-Newtonian Polymer Blends Using Large Amplitude Oscillatory Shearing Flow. Journal of Engineering Research, 2021.
- Almusallam, A.S., I. Dafallah, and L. Benyahia, Modeling the Deformation of Shear Thinning Droplets Suspended in a Newtonian Fluid. Applied Rheology, 2020; 30:151-165.
- Zafar, T.A., A. Aldughpassi, A. Al-Mussallam, and A. Al-Othman, Microstructure of Whole Wheat versus White Flour and Wheat-Chickpea Flour Blends and Dough: Impact on the Glycemic Response of Pan Bread. International Journal of Food Science, 2020; 2020: 8834960.
- Van Casteren, A., D.S. Strait, M.V. Swain, S. Michael, L.A. Thai, S.M. Philip, S. Saji, K. Al-Fadhalah, A.S. Almusallam, A. Shekeban, W.S. McGraw, E.E. Kane, B.W. Wright, and P.W. Lucas, Hard plant tissues do not contribute meaningfully to dental microwear: evolutionary implications. Scientific Reports, 2020; 10(1).
- Ahmed, J., M. Mulla, H. Jacob, G. Luciano, B. T.B, and A. Almusallam, Polylactide/poly(εcaprolactone)/zinc oxide/clove essential oil composite antimicrobial films for scrambled egg packaging. Food Packaging and Shelf Life, 2019; 21:100355.
- Almusallam, A.S. and T. Bini, Scaling Law Accomplished through Correlation of Large Amplitude Oscillatory Shear of Immiscible Polymer Blends with Jackson and Tucker Model. Applied Rheology, 2018; 28(4).
- Wu, K., P. Lucas, A. Gunaratne, L. Collado, H. Corke, A. Almusallam, and L. Thai, Indentation as a potential mechanical test for textural noodle quality. Journal of Food Engineering, 2016; 177:42-49.
- Almusallam, A.S., J. Ahmed, S. Nahar, and S. Chacko, Oscillatory shearing behavior of rocket leaves powder incorporated dough. Korea-Australia Rheology Journal, 2016; 28(2):149-158.
- Almusallam, A.S., Large Amplitude Oscillatory Shear of Immiscible Polymer Blends and Comparison to Anisotropy and Droplet Models. J. Rheol., 2014; 58:1903-1916.
- Ahmed, J., M. Al-Foudari, F. Al-Salman, and A.S. Almusallam, Effect of particle size and temperature on rheological, thermal, and structural properties of pumpkin flour dispersion. Journal of Food Engineering, 2014; 124:43-53.

- Alomair, O.A. and A.S. Almusallam, Heavy crude oil viscosity reduction and the impact of asphaltene precipitation. Energy & fuels, 2013; 27(12):7267-7276.
- Almusallam, A.S., M. Shaaban, K. Nettem, and M.A. Fahim, Delayed aggregation of asphaltenes in the presence of alcohols by dynamic light scattering. Journal of dispersion science and technology, 2013; 34(6):809-817.
- Almusallam, A.S., The modified constrained volume model predictions in shearing flow at nonunity viscosity ratio values. Rheol Acta, 2013; 52(6):607-621.
- Ahmed, J., A.S. Almusallam, F. Al-Salman, M.H. AbdulRahman, and E. Al-Salem, Rheological properties of water insoluble date fiber incorporated wheat flour dough. LWT Food Science and Technology, 2013; 51:409 416.
- Ahmed, J., F. Al-Salman, and A.S. Almusallam, Effect of blanching on thermal color degradation kinetics and rheological behavior of rocket (Eruca sativa) puree. Journal of Food Engineering, 2013; 119:660-667.
- van Casteren, A., P.W. Lucas, D.S. Strait, S. Michael, N. Bierwisch, N. Schwarzer, K.J. Al-Fadhalah, A.S. Almusallam, L.A. Thai, and S. Saji, Evidence that metallic proxies are unsuitable for assessing the mechanics of microwear formation and a new theory of the meaning of microwear. Royal Society open science, 2018; 5(5):171699.
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- Lucas, P.W., M. Wagner, K. Al-Fadhalah, A.S. Almusallam, S. Michael, L.A. Thai, D.S. Strait, M.V. Swain, A. van Casteren, and W.M. Renno, Dental abrasion as a cutting process. Interface Focus, 2016; 6(3):20160008.
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- Lucas, P.W., A. van Casteren, K. Al-Fadhalah, A.S. Almusallam, A.G. Henry, S. Michael, J. Watzke, D.A. Reed, T.G. Diekwisch, and D.S. Strait. The role of dust, grit and phytoliths in tooth wear. in Annales Zoologici Fennici. 2014. BioOne.
- Nettem, K. and A.S. Almusallam, Equilibrium, kinetic, and thermodynamic studies on the biosorption of selenium (IV) ions onto Ganoderma lucidum biomass. Separation Science and Technology, 2013; 48(15):2293-2301.
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- Ahmed, J., A. Almusallam, and S.N. Al-Hooti, Isolation and characterization of insoluble date (Phoenix dactylifera L.) fibers. LWT-Food Science and Technology, 2013; 50(2):414-419.
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- Delphine, S.M., M. Jayachandran, C. Sanjeeviraja, and A. Almusallam, Study on (Mo/W) Se2 layered compound semi conductors useful for photoelectrochemical solar cells. International Journal of ChemTech Research, 2011; 3:846-852.
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- Almusallam, A.S., Effect of interfacial curvature on the adsorption of copolymer stabilized nanoparticles of different copolymer compositions: a Brownian dynamics study. Physical Chemistry Chemical Physics, 2010; 12(38):12198-12207.
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- Almusallam, A.S. and T.B. Bini. Modelling Vorticity Stretching of Viscoelastic Droplets During Shearing Flow, presented in the Annual European Rheology Conference, April 2021.
- Almusallam, A.S. Nonlinear Viscoelastic Rheology of Wheat Dough Examined Through Classical Constitutive Equations. The Annual European Rheology Conference, April 2021.
- Almusallam, A.S. and T.B. Bini. Effect of Normal Stresses on The Evolution of Droplet Shape During Flow. in Annual European Rheology Conference. April, 2018. Sorrento, Italy.
- Abdulwahab Almusallam and Bini Balakrishnan, "Comparison of Jackson and Tucker Model to Large Amplitude Oscillatory Shear of Immiscible Polymer Blends", XVII International Rheology Congress, Aug. 2015, Kyoto, Japan.
- Abdulwahab Almusallam, Isameldeen Daffallah and Lazhar Benyahia, "Rheology of Polymer Blends Composed of Non-Newtonian Components", XVII International Rheology Congress, Aug. 2015, Kyoto, Japan,
- Abdulwahab Almusallam, Bader Albusairi and Isameldeen Daffallah, "A New Approach for Using Theoretically-Informed Brownian Dynamics Simulation to Study Polymer-Solvent Systems", 6th Pacific Rim Conference on Rheology, July 20 – 25, 2014, Melbourne, Australia.
- Abdulwahab Almusallam, "A Comparative Study of Predictions of Rheology of Immiscible Polymer Blends Models at Large Amplitude Oscillatory Shear", 6th Pacific Rim Conference on Rheology, July 20 25, 2014, Melbourne, Australia.
- Abdulwahab S. Almusallam, "Large Amplitude Oscillatory Shear of Immiscible Polymer Blends and Comparison to Predictions of Droplet and Anisotropy Models", 9th Annual European Rheology Conference, April 8 11, 2014, Karlsruhe, Germany.
- Abdulwahab S. Almusallam, "Experimental Investigation of LAOS Behavior of PBd/PDMS Blends and Comparison to the Predictions of the Constrained Volume Model" 8th Annual European Rheology Conference, April 5, 2013, Leuven, Belgium.
- Abdulraheem, Y.M. and Almusallam A.S., "Optical and Nano-scale Characteristics of Titanium Dioxide Nanoparticles", 2nd International Advances in Applied Physics and Materials Science Conference, Antalya, Turkey, April 2012.
- J. Ahmed, M. Abdulrahman, A. Almusallam, S. Al-Hooti and S. Al-Zenki, "Isolation, characterization of insoluble date fibre from date flesh and its effect on rheological characteristics of wheat flour/date fibre blended dough", Chicago, Illinois, March 2012.
- Almusallam, A.S. "The Modified Constrained Volume Model Predictions in Shear Flow at Different Viscosity Ratios", Ibereo 2011: Rheology trends: from nano to macro systems, Caparica, Portugal, September, 2011.
- Almusallam, A.S. and Abdulraheem, Y.M. "Aggregation behavior of Titanium Dioxide Nanoparticles in Aqueous Environments", Nanocon, Olumouc, Czech Republic, October, 2010.

- Almusallam, A.S., "Brownian Dynamics Simulations of Block copolymer-stabilized nanoparticles in two-phase media: Geometrical Considerations", European Colloids and Interface Science conference, Prague, Czech Republic, September 2010.
- Almusallam, A.S., "A Brownian Dynamics Study of the Effect of Interfacial Curvature on the Adsorption of Copolymer Stabilized Nanoparticles at Liquid-Liquid Interfaces", 23rd General Conference of the Condensed Matter Division of the European Physical Society, Warsaw, Poland, August 2010.
- Almusallam, A.S., "Block copolymer stabilized nanoparticles in a two-solvent system", Conference on Molecular Simulations in Biosystems and Materials Science, Konstanz, Germany, April, 2008.
- Almusallam, A.S., Sholl, D., "Brownian dynamics study of polymer-stabilized nanoparticles", the Midwest Thermodynamics and Statistical Mechanics Conference, Buffalo, NY, June 4, 2004.
- Larson, R.G., A.S. Almusallam, M.J. Solomon, "Comprehensive constitutive model for the prediction of stresses in immiscible blends", The 74th Annual Meeting of the Society of Rheology ,Minneapolis, Minnesota ,October ,2002 .
- Larson, R.G., A.S. Almusallam and M.J. Solomon, "Constitutive modeling of the flow of immiscible polymer blends," Proceedings of the international symposia, Society of Materials Science, Osaka, Japan 2001.
- Solomon, M.J., A.S. Almusallam and R.G. Larson, "Droplet deformation and breakup during the flow of immiscible polymer blends," The 18th Biennial North American Mixing Conference, June 24-29, 2001.
- Almusallam, A.S., R.G. Larson and M.J. Solomon, "Prediction and measurement of deformed droplet shapes and interfacial stresses in immiscible blends under flow," AIChE National Meeting, Los Angeles, November, 2000.
- Solomon, M.J., A. S. Almusallam, K.F. Seefeldt, P. Varadan, "Polypropylene/clay nanocomposites: relationship between melt-state rheology and dispersion," Proceedings of the American Chemical Society Division of Polymeric Materials: Science and Engineering, 82 263 (2000).
- Almusallam, A.S., R.G. Larson and M.J. Solomon, "Phenomenological model for droplet shape changes and stresses in flow of immiscible blends," 20th International Congress of Theoretical and Applied Mechanics, Chicago, IL 27 August 2 September, 2000.
- Solomon, M.J., A.S. Almusallam, K.F. Seefeldt and P. Varadan, "Effect of Microstructure on the Rheology of Polypropylene/clay Nanocomposites," AIChE National Meeting, Dallas, TX Oct 31-Nov 5, 1999.
- Almusallam, A.S., R.G. Larson and M.J. Solomon, "An adaptation of the Doi-Ohta theory to the predictions of droplet shape changes and stresses in the flow of immiscible blends," Paper BC4, 71st Annual Meeting of the Society of Rheology, October 17-21, 1999, Madison WI.
- Solomon, M.J., A. S. Almusallam and R.G. Larson, "The Evolution of Morphology During the Mixing of Immiscible Polymer Blends," 17th Biennial North American Mixing Conference, August 15-20, 1999, Banff Canada.
- Abdulwahab Almusallam and Bini Balakrishnan, "Analogy Between Laos Of Immiscible Polymer Blend And Jackson-Tucker Model Coupled With Batchelor Or Modified Peters Equations" Kuwait University Poster Day, 2017
- Abdulwahab Almusallam and Bini Balakrishnan, "Experimental Investigation Of The Deformation Of A Shear Thinning Dispersed Phase In A Newtonian Matrix" Kuwait University Poster Day, 2018
- Abdulwahab Almusallam and Bini Balakrishnan, "Rheological Droplet Size Determination After Controlled Moving Of Geometry" Kuwait University Poster Day, 2019
- Abdulwahab Almusallam and Bini Balakrishnan, "Investigation Of The Steady State Deformation Of A Viscoelastic Drop or Boger Fluid In Newtonian Matrix" Kuwait University Poster Day, 2020

- Abdulwahab S. Almusallam, "Large Amplitude Oscillatory Shear Rheology of Immiscible Polymer Blends and Comparison to Constitutive Models", Kuwait University Scientific Poster Day, March 2014.
- Almusallam A.S., "Rheology of Immiscible Polymer Blends and Comparison to the Constrained Volume Model", Kuwait University Scientific Poster Day, March 2013.
- Peter Lucas, Khaled Al-Fadhalah, Abdulwahab S. Almusallam, Ridwaan Omar, Amanda Henry, Jörg Watzke, Shaji Michael, Lidia Thai and Tony Atkins, "The cause of dental abrasion", Kuwait University Scientific Poster Day, March 2013.
- Abdulraheem, Y.M. and Almusallam A.S., "Optical and Nano-scale Characteristics of Titanium Dioxide Nanoparticles", Kuwait University Scientific Poster Day, March 2012.
- Almusallam, A.S., Shaaban, M., Nettem, K. and Fahim, M., "A Light Scattering and Onset Point Study of Asphaltene Obtained from Kuwaiti Origin", Kuwait University Scientific Poster Day, March 2012.
- Peter Lucas, Ridwaan Omar, Amanda Henry, Khaled Al-Fadhalah, Abdulwahab Almusallam, Shaji Michael, Lidia Thai, "Studying Tooth Wear at the Nanoscale", Kuwait University Scientific Poster Day, March 2012.
- Almusallam, A.S., "Effect of Interfacial Curvature on the Adsorption of Copolymer Stabilized Nanoparticles of Different Copolymer Compositions: A Brownian Dynamics Study", The Third Scientific Poster Day, College of Science, Kuwait University, Kuwait, April, 2010.

9. Funded Research

- SIMBAT: Simulation and Modelling of Batteries, Phase I, PI, submitted to KFAS for funding (in collaboration with imec, Belgium).
- Oilfield wastewater treatment by metal organic framework-composite materials, Co-I, submitted to KFAS for funding
- Development of dysphagia diets for Kuwaiti elderly patients using rheological and 3Dprinting approach, funded by KFAS, Co-I. Will start at 9/2024.
- Development of lab protocol to monitor the quality of Demulsifier used in KOC gathering centers, PI, submitted to KOC for funding.
- Advanced Crystalline Silicon Photovoltaics Research Program (Phase III), Co-I, funded by KFAS (in collaboration with imec, Belgium).
- Use of Magnetic Nanoparticles in the removal of emulsified oil droplets in water, funded by Kuwait Foundation for the Advancement of Science, June 2015- 2017, Co-Investigator.
- An Experimental and Theoretical Study of Immiscible Polymer Blends Subjected to Large Amplitude Oscillatory Shearing Flow, September 2015 2017, Principal Investigator.
- Development of Functional Foods (Pan and Arabic Flat Breads) using Chickpea-Wheat flour for diabetic patients. Phase I. Dough Rheological Studies, May 2014 2017, Co-Investigator.
- Large amplitude oscillatory shear flow of immiscible polymer blends: rheology and modeling. Funded by Kuwait University Research Administration, 2011 2013, Principal Investigator (KD 8,300).
- Use of TiO2 nanoparticles in the photodegradation of organic contaminants present in potable water, A priority research project funded by Kuwait University Research Administration, May 2010 2014, Co-Investigator with Dr. Yaser Abdulraheem, Electrical Engineering Department, Kuwait University (KD 53,000).
- Block copolymer -stabilized nanoparticles in two-phase media: Geometrical considerations. Funded by Kuwait University Research Administration, 2008 – 2010, Principal Investigator (KD 5,900).

• Designing stabilized nanoparticles for ground water remediation. Funded by Kuwait University Research Administration, 2006 – 2007, Principal Investigator (KD 2,000).

10. Supervised Thesis

- Thesis supervisor, Fatma Meqdad, Thesis title is "Rheology and Microstructure of Polyethylene/Polypropylene Polymer Blends", Ongoing
- Thesis supervisor, Albadari Alajmi, Thesis title is "Linear and nonlinear rheology of food developed for dysphagia patients", Ongoing
- Thesis supervisor, Aslmaa Redha, Thesis title is "Rheology of Crude oil/water/polymer emulsions", Ongoing
- Thesis supervisor, Bushra Sourakli, Thesis title is "Separation of oil from oil-in-water emulsions using magnetic nanoparticles", Ongoing.
- Thesis supervisor, Hana Al-Khalaf, Thesis title is "Rheology of Dough Made from Lentil-Wheat Flour Blends", Ongoing.
- Thesis supervisor, Wesal Al-Omran, Thesis title is "Linear to Nonlinear Rheology of Heavy Crude Oil-Water-Surfactant Emulsions", Expected at 2024.
- Thesis supervisor, Rawan Al-Hammadi, Thesis title is "Linear to Nonlinear Rheology of Heavy Crude Oil Water Emulsions", 2023.
- Thesis supervisor, Nouriya Hameed, Thesis title is "Studying Newtonian/Non-Newtonian Polymer Blends Using Large Amplitude Oscillatory Shearing Flow", 2018.
- Thesis supervisor, Esam eddin Dhaif allah, Thesis title is "Experimental investigation of large amplitude oscillatory shear of non-Newtonian immiscible polymer blends", 2018.
- Thesis supervisor, Marwah Al-Kharas. Thesis title is "A comparative study of the aggregation kinetics of asphaltene in the presence of surfactants", 2016.
- Project supervisor, Zainab Al-Sairafi. Project title is "Rheological Properties of High-Density Polyethylene and Polypropylene Blend", 2011