

Dr. Ahmad E. Naqi

Name and contact information

Name: Ahmad E. Naqi
Rank: Assistant Professor
Address: Office Room Number: S03E1170., Chemical Engineering Department, College of Engineering and Petroleum, Kuwait University (Al-Shadadiya)
E mail: naqi.ahmad@ku.edu.kw

Education

Degree	Field	Institution	Country	Year
PhD.	Chemical Engineering	University of Delaware	USA	2024
M.S.	Chemical Engineering	University of South Florida	USA	2018
B.S.	Chemical Engineering	Florida Institute of Technology	USA	2015

Academic Experience

Institution	Designation	Country	Year/period
Kuwait University	Assistant Professor	Kuwait	2024 - Now
Kuwait University	Scholarship Teaching Assistant	Kuwait	2019 – 2024

Non-academic experience

Office/Organization	Designation	Month Year
Kuwait National Petroleum Company	Process Engineer	April 2018 – July 2019

Membership in professional organization

Society Name	Type of Membership	Year
American Chemical Society	Member	2023 – Present
AIChE	Member	2018 – Present
Society of Rheology	Member	2021 – Present
Materials Research Society	Member	2023 – Present

Journal Publications (Most Recent/Distinguished)

- **Naqi, Ahmad**, Zachary Swain, and Michael E. Mackay. "Dual material fused filament fabrication via core-shell die design." ACS Applied Polymer Materials 5, no. 4 (2023): 2481-2489. DOI: <https://pubs.acs.org/doi/abs/10.1021/acsapm.2c02152>
- **Naqi, Ahmad**, John N. Kuhn, and Babu Joseph. "Techno-economic analysis of producing liquid fuels from biomass via anaerobic digestion and thermochemical conversion." Biomass and Bioenergy 130 (2019): 105395. DOI: <https://doi.org/10.1016/j.biombioe.2019.105395>
- **Naqi, Ahmad**, Derek J. Bischoff, and Michael Mackay. "Dual material fused filament fabrication of composite core-shell structures with improved impact resistance and interfacial adhesion." Journal of Applied Polymer Science 141, no. 18 (2024): e55301. DOI: <https://doi.org/10.1002/app.55301>
- Zhao, Xianhui, **Ahmad Naqi**, Devin M. Walker, Tim Roberge, Matthew Kastelic, Babu Joseph, and John N. Kuhn. "Conversion of landfill gas to liquid fuels through a TriFTS (tri-reforming and Fischer-Tropsch synthesis) process: a feasibility study." Sustainable Energy & Fuels 3, no. 2 (2019): 539-549. DOI: <https://doi.org/10.1039/C8SE00344K>
- **Ahmad Naqi** and Michael Mackay, The Use of Recyclable Commodity Polyolefins in Fused Filament Fabrication with Enhanced Dimensional Accuracy and Impact Resistance (manuscript in preparation).

- **Ahmad Naqi** and Mackay, M.E. Fabrication of microfluidic channels/tissue scaffolds via Core-Shell 3D printing (manuscript in preparation)
- **Ahmad Naqi** and Michael. Fused Filament Fabrication of Gradient Material with Core-Shell Morphology (manuscript in preparation).

Conference Publications and Presentations (Most Recent/Distinguished)

- The Society of Rheology 92nd Annual Meeting: paper presentation on "Multi-material Fused Filament Fabrication via Core-Shell Die Design."
- Materials Research Society 2023 Fall Meeting: poster presentation on "Dual Material Fused Filament Fabrication via Core-Shell Die Design. "
- 2018 AIChE Annual Meeting: paper presentation on "A Feasibility Study on Biofuel Production Using Anaerobic Digestion and Thermochemical Catalysis. "
- 2019 GPA GCC Annual Conference: poster presentation on "Techno-economic Analysis of Producing Liquid Fuels from Biomass via Anaerobic Digestion and Thermochemical Conversion."
- 2019 AIChE Annual Meeting: poster presentation on "Process Intensification of Biogas to Liquid (BGTL) Processes: A Techno-Economic Study. "

Other Publications

- Naqi, Ahmad. "Conversion of biomass to liquid hydrocarbon fuels via anaerobic digestion: A feasibility study." Master's thesis, University of South Florida, 2018.
- Naqi, Ahmad. "Techniques And Applications in Dual Material Fused Filament Fabrication with Composite Core-Shell Structures for Enhanced Mechanical Performance and Dimensional Accuracy. " Ph.D. Dissertation, University of Delaware, 2024.

Recent professional development activities

Role in Service	Service Type	Surface Title / Description	Year
Principal Investigator	Grant Proposal	Research Initiation Grant Proposal submitted to startup research lab in Kuwait University	2024
Principal Investigator	Young Investigator Grant Proposal	Grant to acquire necessary equipment needed for starting a polymer processing and recycling lab at Kuwait University	2024