Jasir Jawad

Research Assistant

M.S. CHEMICAL ENGINEERING
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EDUCATION

M.S. Chemical Engineering (CGPA: 3. 863)
Texas A&M University at Qatar
2016 – 2018
Thesis title: Experiments & dynamic simulation of depressurization of a vessel connected to a catch-tank

B.E. Chemical Engineering (CGPA: 3.092)
NED University of Engineering and Technology
2012 – 2016

Soft skills

- Problem Solving Skills
- Communication Skills
- Fast Learner
- Teamwork
- Leadership

Software skills

- Microsoft office: Excel, PowerPoint, Word, Visio
- Programming: C++, FORTRAN, MATLAB
- Statistics: Minitab, R
- Simulation: Aspen HYSYS, ProMax
- Writing & Plots: LaTeX, GNUPLOT, ORIGIN
- Data Analysis: Jupyter notebook, Python, SQL

Languages

- English – Fluent
- Urdu - Fluent
- Arabic - Basic

License & Certification

- IBM Introduction to Data Science
  Coursera
- Qatar Driving License

Experience

Research Assistant
Center for Advanced Materials, Qatar University – Doha, Qatar
Nov 2019 – Present

- Developing transport-based mathematical models for simulation of forward and reverse osmosis crossflow experimental setups
- Applying machine learning techniques such as artificial neural network and response surface methodology for the modeling of forward osmosis and membrane bioreactor

Research Assistant
Mary Kay O'Connor Process Safety Centre (MKOPSC-Q), Texas A&M University at Qatar – Doha, Qatar
Aug 2017 – Oct 2018

- Experimental study of liquid nitrogen spill on seawater at Ras Laffan Emergency and Safety College (RLESC)
- Sizing of relief valves and catch-tanks for gas blowdown process (experiments on PHI-TEC II adiabatic calorimeter)
- Analyzed dust explosion characteristics of sulfur using 20L sphere
- Developing of Standard Operating Procedures (SOPs) and conducting risk assessment for experimentation
- Part of the organizing team at Process Safety Symposium 2018
- Weekly laboratory inspections

Publications & Presentations

- J. Jawad, A.H. Hawari, S.J. Zaidi, Artificial Neural Network Modeling of Wastewater Treatment and Desalination Using Membrane Processes: A Review, (2020). - ***(under review)***
- J. Jawad, A.H. Hawari, S.J. Zaidi, Modeling and Sensitivity Analysis of the Forward Osmosis Process to Predict Membrane Flux Using a Novel Combination of Neural Network and Response Surface Methodology techniques, (2021). - ***(Accepted)***
- J. Jawad, A.H. Hawari, S.J. Zaidi, The influence of aeration scheme and aeration rate on the permeate flux for wastewater treatment using membrane bioreactors: Experimental and artificial neural network modeling, (2020). - ***(Accepted)***
- J. Jawad, A.H. Hawari, S. Zaidi, Modeling of forward osmosis process using artificial neural networks (ANN) to predict the permeate flux, Desalination. 484 (2020). https://doi.org/10.1016/j.desal.2020.114427.
- J. Jawad, R. de P. Soares, L.N. Véchot, M. Castier, Dynamics of gas flow between interconnected vessels: Experiments and simulations, Process Saf. Environ. Prot. 134 (2020) 381–391. https://doi.org/10.1016/j.psep.2019.11.032.
- Presented "Review and Analysis of Incidents in the World from 2017 to 2018" at the Qatar Process Safety Symposium (QPSS), 2018
- Presented a poster titled "Study of Explosion Properties of Sulfur Dusts Collected from Qatar Industries" at Qatar Process Safety Symposium, 2017