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GENERAL INFORMATION		
Name	Nationality	
Alanood Abdelmajid Alsarayreh Alanood A. Alsarayreh	Jordanian	

EDUCATION			
DEGREE	DISCIPLINE	INSTITUTION	YEAR
Ph.D.	Chemical and Thermodynamics Engineering	University of Bradford, UK, January of 2021.	(2021)
Masters	Chemical and petroleum Engineering	University of Bradford, UK	(2017-2018)
Bachelors	Chemical Engineering	Mutah University, Karak, Jordan	(2006-2011)

ACADEMIC EXPERIENCE				
INSTITUTION	RANK/TITLE	PERIOD	FT/PT	
Chemical Engineering Department, College of Engineering, Mu'tah University, Jordan	Assistant Professor	Jan. 2021 - Present	FT	
University of Bradford, UK	Teaching Assistant	2019-2020	PT	
University of Bradford, UK	Research Assistant	2018-2021	PT	
University of Bradford, UK	Research Student	2017-2018	PT	

NON-ACADEMIC EXPERIENCE				
COMPANY/ENTITY	RANK/TITLE	PERIOD	FT/PT	
The laboratories of Jordanian royal medical services	Chemical and Control Engineer	2013-2017	FT	
Arab Potash Company	Chemical Engineer	2012		
Prince Faisal Center for Dead Sea, Environmental and Energy Research	Chemical Engineer	4 months		
The laboratories of Jordanian royal medical services	B.Sc. Training	4 months		
Experience in laboratories of public works	Chemical Engineer	one year		

CURRENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	
ORGANIZATION	PERIOD
Jordan Engineering Association	2011-Present

HONORS & AWARDS

Scholarship From Mutah University for MSc. And Phd. degrees (2018-2021)

SERVICE ACTIVITIES (Within and Outside the Institution)

Head of Chemical Engineering Department, Mutah University, Jordan (Feb. 2023 – Present)

Representative of the Chemical Engineering Department at the Engineering Council, Mutah University (2021- Feb. 2023).

Member of the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity (IEEE), (2022- Present)

Member of the first research team at Mu'tah university, (2022- Present)

IMPORTANT PUBLICATIONS (The Past Five Years)

1. Al-Obaidi, M.A., Alsarayreh, A.A., Al-Hroub, A.M., Alsadaie, S. and Mujtaba, I.M., 2018. **Performance analysis of a medium-sized industrial reverse osmosis brackish water desalination plant.** *Desalination*, 443, pp.272-284
2. Alsarayreh, A.A., Al-Obaidi, M.A., Al-Hroub, A.M., Patel, R. and Mujtaba, I.M., 2019. **Performance Evaluation of Reverse Osmosis Brackish Water Desalination Plant with Different Recycled Ratios of Retentate.** *Computer Aided Chemical Engineering* (Vol. 46, pp. 181-186). Elsevier.
3. Alsarayreh, A.A., Al-Obaidi, M.A., Al-Hroub, A.M., Patel, R. and Mujtaba, I.M., 2019. **Evaluation and minimisation of energy consumption in a medium-scale reverse osmosis brackish water desalination plant.** *Journal of Cleaner Production*, p.119220.
4. Alsarayreh, A.A., Al-Obaidi, M.A., Patel, R. and Mujtaba, I.M., 2020. **Scope and Limitations of Modelling, Simulation, and Optimisation of a Spiral Wound Reverse Osmosis Process-Based Water Desalination.** *Processes*, 8(5), p.573.
5. Alsarayreh, A.A., Al-Obaidi, M.A., Farag, S.K., Patel, R. and Mujtaba, I.M., **Performance evaluation of a medium-scale industrial reverse osmosis brackish water desalination plant with different brands of membranes. A simulation study.** *Desalination*, 503, p.114927.
6. Alsarayreh, A.A., Al-Obaidi, M.A., Ruiz-García, A., Patel, R. and Mujtaba, I.M., 2021. **Thermodynamic Limitations and Exergy Analysis of Brackish Water Reverse Osmosis Desalination Process.** *Membranes*, 12(1), p.11.
7. Altarawneh, O.R., Alsarayreh, A.A., Ala'a, M., Al-Kheetan, M.J. and Alrwashdeh, S.S., 2022. **Energy and exergy analyses for a combined cycle power plant in Jordan.** *Case Studies in Thermal Engineering*, 31, p.101852.
8. Alsarayreh, A.A., Abbas, T.K., Alaswad, S.O. and Bajoga, A.D., 2022. **Remove Liquid Radioactive Wastes Utilizing Nanofiltration, Ultrafiltration, and Microfiltration Membranes.** *Engineering and Technology Journal*, 40(9), pp.1231-1259.
9. Ibraheem, B.M., Aani, S.A., Alsarayreh, A.A., Alsalhy, Q.F. and Salih, I.K., 2023. **Forward Osmosis Membrane: Review of Fabrication, Modification, Challenges and Potential.** *Membranes*, 13(4), p.379.
10. Mahmood, R.S., Alsarayreh, A.A. and Abbas, A.S., 2023. **Measurement and Analysis of Bubble Size Distribution in the Electrochemical Stirred Tank Reactor.** *Iraqi Journal of Chemical and Petroleum Engineering*, 24(1), pp.27-31.
11. Al-Obaidi, M.A., Alsarayreh, A.A. and Mujtaba, I.M., 2023. **Reduction of Energy Consumption of Brackish Water Reverse Osmosis Desalination System Via Model Based Optimisation.** *Journal of Techniques*, 5(1), pp.1-7.

12. Rashid, F.L., Kaood, A., Al-Obaidi, M.A., Mohammed, H.I., Alsarayreh, A.A., Al-Muhsen, N.F., Abbas, A.S., Zubo, R.H., Mohammad, A.T., Alsadaie, S. and Sowgath, M.T., 2023. **A Review of the Configurations, Capabilities, and Cutting-Edge Options for Multistage Solar Stills in Water Desalination.** *Designs*, 7(3), p.67.

13. Al-Obaidi, M., Alsarayreh, A.A., Jassam, S.H., Rashid, F.L., Bdour, A.N. and Mujtaba, I.M., **Simulation and Optimisation of a Medium Scale Reverse Osmosis Brackish Water Desalination System: Energy Saving and Maintenance Opportunity.** *Accepted for publication in Desalination.*

Conferences (The Past Five Years)

1- Alsarayreh, A.A., Al-Obaidi, M.A., Al-Hroub, A.M., Patel, R. and Mujtaba, I.M., 2019. **Performance Evaluation of Reverse Osmosis Brackish Water Desalination Plant with Different Recycled Ratios of Retentate. In Computer Aided Chemical Engineering.** Accepted and Published in *ESCAPE 29*.

2- Alsarayreh, A.A., Al-Obaidi, M.A., Al-Hroub, A.M., Patel, R. and Mujtaba, I.M., 2019. **Optimisation of energy consumption in a medium-scale reverse osmosis brackish water desalination plant.** Accepted and Published in *ESCAPE 30*.

3- Alsarayreh, A.A., Al-Obaidi, M.A., A.M., Patel, R. and Mujtaba, I.M., 2020. **Enhancement of energy saving of reverse osmosis system of Arab Potash Company via a wind energy system.** Accepted and Published in *ESCAPE 31*.

4- Alsarayreh, A.A., Al-Obaidi, M.A., Alrwashdeh, S.S., A.M., Patel, R. and Mujtaba, I.M., 2021. **Enhancement of energy saving of reverse osmosis system via incorporating a photovoltaic system.** Accepted and Published in *ESCAPE 32*.

5- Alanezi, A.A. and Alsarayreh, A.A., 2022. **Effect of Inclination Angle on Productivity of a Direct Contact Membrane Distillation (Dcmd) Process.** *open science index* 16 2022, 23, p.63

6- Al-Obaidi, M.A., Alsarayreh, A.A., and Mujtaba, I.M., 2023. **Simulation and optimisation of a medium scale industrial reverse osmosis desalination system.** Accepted for publication in *ESCAPE 33*.

MOST RECENT PROFESSIONAL DEVELOPMENT ACTIVITIES

Certificate of reviewing in South African Journal of Chemical Engineering, ELSEVIER (2020, 2021,2022)

Certificate of UK Teaching Fellowship from the learning, teaching, and quality enhancement of University of Bradford.

Certificate of training course in" Implementation of ISO/IE 17025:2005 and Laboratory Documentation System" from USAID.

Training Course in the laboratories of Hospital Prince Ali Bin Al Hussein.

Training in an instrumental analysis from "Prince Faisal Center for Dead Sea, Environmental and Energy Research".

Training in Public Works for one year.

Training in Arab Potash Company for one year.

Training course in the design of drinking water plants.

Certificate of training in instrumental analysis.

Certificate of communication skills.

Grant of excellence and success of human development from California college (Diploma in NLP (neural linguistic programming), Diploma in memory and remembering, self-confidence, communication skills course, the secrets of success cycle, cycle time management, self-motivation, mental maps, positive thinking, goal-setting cycle and how to achieve them).

