CURRICULUM VITAE

PERSONAL DATA

Full Name: Alanood Abdelmajid Alsarayreh.

Date of Birth: 28/12/1988.

Place of Birth: Alkarak –Jordan

Address: Jordan-Alkarak-Mutah University.

Nationality: Jordanian

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ACADEMIC QUALIFICATIONS

- **Ph.D** in Chemical and Thermodynamics Engineering, University of Bradford, UK, January of 2021.

  Thesis Title: " Modelling, Simulation, Optimisation and Thermodynamic Analysis of Multistage Reverse Osmosis Process based Brackish Water**".**

- **M.Sc** in Chemical and petroleum Engineering, University of Bradford, UK, 2017-2018.

  Thesis Title: " Modelling and Simulation of Reverse Osmosis Process for Brackish Water Desalination **".**

- **BSc.** in Chemical Engineering (Operations), Mutah University, Karak, Jordan, (2006-2010).
  Graduate Project: "Improved Process for the Purification of Jordanian Phosphogypsum**"**.

- **General Secondary Education** Certificate (GSEC): 2006, (Scientific).

Work

- I have worked for five years in the laboratories of Jordanian royal medical services as quality control engineer.
- I have worked for one year as a teaching assistant at the University of Bradford under the supervision of module leader.

TRAINING AND CERTIFICATIONS

- Training Course in the laboratories of Hospital Prince Ali Bin Al Hussein for 4 months.
- 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.
- Training on water treatment in Arab Potash Company.
- Certificate of training in instrumental analysis.
- Certificate of IELTS &TOEFL for English language.
- Certificate of training course in "Implementation of ISO/IE 17025:2005 and Laboratory Documentation System" from USAID.
- Certificate of communication skills.
- Certificate of Experience in laboratories of public works for one year.
- Certificate of UK Teaching Fellowship from the learning, teaching and quality enhancement of University of Bradford.
- 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).
- Possessed a driver's license.

• SKILLS, EXPERIENCE AND COMPUTER CAPABILITIES

- Windows, Microsoft Office & Programming Language: gPROMS, Matlab.
- AutoCAD. Internet & and Other Computerized Skills.
- Languages: Arabic: Mother language, and English.

• MEMBERSHIPS IN PERSONAL ORGANIZATION

Jordan Engineers Association "JEA".

Research Interest

- Modelling, Simulation, and Optimisation for any chemical engineering processes.

Publications

Journals

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.** In *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., A.M., Patel, R. and Mujtaba, I.M., 2020. **Thermodynamic limitations and exergy analysis of reverse osmosis brackish water desalination plant of Arab Potash Company.** *Will be submitted soon.*

Conferences

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 in ESCAPE 31.**