

CURRICULUM VITAE

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EDUCATION

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PUBLICATIONS

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- 173- **M. Assad** and Ari Seppälä, Equations and preliminary results for optimization of a hollow fiber osmosis power plant. Salinity Power Project, European Union, 2003.

EXPERIENCE

- Jan 1994- March 2006: working as research scientist at Aalto University (Finland)
- Apr 2006- Jan 2014: working as docent at Aalto University (Finland)
- Feb 2014- September 2015: Associate professor (Chairman), Mechanical Engineering Department, Australian College of Kuwait
- August 2016-July 2021: Associate professor, University of Sharjah
- 1 August 2021-up to date: Professor, University of Sharjah

AWARDS

- Aalto University: Teacher of the year 2011 prize, Finland
- Sharjah Sustainability Award, 2020, UAE

COURSES TAUGHT

- 1- Heat transfer
- 2- Fluid mechanics
- 3- Mass transfer
- 4- Advanced fluid mechanics
- 5- Advanced heat transfer
- 6- Statics
- 7- Dynamics
- 8- Introduction to energy engineering
- 9- Geothermal energy systems
- 10- Solar energy systems
- 11- Wind energy
- 12- Classical thermodynamics
- 13- Chemical thermodynamics
- 14- Technical thermodynamics
- 15- Irreversible thermodynamics
- 16- Engineering management
- 17- Maintenance
- 18- Wind energy Lab
- 19- Heat transfer Lab
- 20- Energy storage Lab
- 21- Workshop for mechanical engineers

RESEARCH FUND

I obtained research grants from European Union, Aalto University, Finnish Academy, ABB Company, Kemira Company, Hydrocell Company, Kemira Company, Scandia Company and University of Sharjah. Total amount of fund exceeds 2.5 million USD.

PRESENT RESEARCH

Nanofluid flow, geothermal energy, solar energy, wind energy, applications of renewable energy in industry, absorption chillers, heat exchangers, artificial neural network analysis.

RESEARCH INTERESTS

Fluid flow modelling, energy and exergy analysis, evaporative cooling, nanofluids, energy conversion systems.

COMPUTER SKILLS

Microsoft Office, Origin, COMSOL, ANSYS, Maple and Matlab.

EDIROTIAL BORAD MEMBERSHIP

- 1- Journal of Advanced Research in Fluid Dynamics and Thermal Sciences, Malaysia
- 2- Fluid Dynamics and Material Processing, UAS
- 3- Renewable Energy Research and Applications, Iran
- 4- International Journal of Renewable Energy Development, Indonesia
- 5- International Journal of Petrochemistry and Research, USA
- 6- Journal of Robotics and Mechanical Engineering Research, USA
- 7- International Journal of Rotating Machinery, Guest Editor, 2017, Eqypt (SCOPUS)
- 8- Guest Editor, Special issue in Frontiers in Energy Research journal, 2021
- 9- International Journal of Petroleum and Petrochemical Engineering, USA
- 10- Petroleum & Petrochemical Engineering Journal, USA
- 11- WASET world academy, USA
- 12- International Journal of Mechanical Systems Engineering, USA
- 13- Member of NanoTori: NanoTori, the land of minds and ideas, is a startup that was established in 2020. Nanotori relies on a diverse arsenal of 15 notable professors (including **M. Assad**) to provide scientific and educational solutions, powered by your own need. For more information, visit: <https://www.nanotori.eu/>
- 14- International Journal of Mechanical Systems Engineering, USA

References

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