

Jaradat Mustafa

Associate Professor
German Jordanian University
Amman-Jordan

Amman Madaba Street
P.O. Box 35247
Amman 11180 Jordan
Tel: +962 6 4294444 Ext. 4221
Mobile: +962798176720
E-Mail: mustafa.jaradat@gju.edu.jo



Curriculum Vitae

Personal Information

- Name: Mustafa Jaradat
- Nationality: Jordanian/German
- Place and date of birth: Irbid, September, 7th 1979
- Marital Status: Married

Education

- University of Kassel. Kassel, Germany**
Doctor of Engineering (Dr.-Ing.), Institute of Thermal Engineering, Department of Solar and Engineering Systems.
2008-2016 Overall grade: "with great honour" (magna cum laude).
Dissertation Title: " Construction and Analysis of Heat and Mass Exchangers for Liquid Desiccant Systems"
- Jordan University of Science and Technology. Irbid, Jordan**
Master of Science in Mechanical Engineering
2002-2004 Overall grade: 89.8 (very good)
Thesis Title: "Experimental Study of a Solar Adsorption Refrigeration Unit"
- Jordan University of Science and Technology. Irbid, Jordan**
Bachelor of Science in Mechanical Engineering
1997-2002
- Secondary School, Irbid, Jordan**
Irbid Secondary School
1995-1997 **Secondary School Exam/Scientific Stream (1997)**
Overall grade: 89.6

Awards and Honoring

- DAAD (Deutscher Akademischer Austausch Dienst) scholarship
- Ranked first among M.Sc. colleagues with an overall average 89.8

Languages

- Arabic: Mother tongue.
- English: Fluent spoken and written.
- German: Very good spoken and written.

Work Experience

- Sep. 2021-Oct. 2022 Head of Energy Engineering Department. German Jordanian University, Amman-Jordan.

Sep. 2020-Present	Associate Professor, Exchange Coordinator. German Jordanian University, Energy Engineering Department, Amman-Jordan.
Sep. 2018/ Sep. 2020	Assistant Professor, German Jordanian University, Energy Engineering Department, Amman-Jordan.
Oct.2017-Aug. 2018	Assistant Professor, Hashemite University, Mechanical Engineering Department, Zarqa-Jordan.
Oct. 2012- Sep.2017	Team leader of “OpenSorp” project group, University of Kassel, Germany. Development of open-cycle liquid desiccant absorbers and regenerators for HVAC systems.
July 2013-Dec. 2015	Research assistant (part time), Institute decentralized Energy Technologies (IdE GmbH i. L), Kassel-Germany.
Apr. 2011-Sep.2012	Member of “KLIMZUG-Nordhessen” project group, University of Kassel, Germany. Planning and construction of a mobile open-cycle liquid desiccant system for drying of hay bales.
Mar. 2008-Oct. 2009	Member of International Energy Agency Solar Heating and Cooling Programme (IEA SHC) Task 38 SolarAir Conditioning&Refrigeration, Subtask C: State of the art – Survey on new solar cooling developments.
Oct. 2007-Mar. 2011	PhD student and research assistant with a DAAD scholarship. Institute of Thermal Engineering-Group of Solar and Systems Engineering, Kassel University- Germany.
Oct.2005-Sep.2006	Full-time lecturer in the Engineering Department (Refrigeration and Air Conditioning) at Arab Community College-Amman-Jordan.
Oct.2002-Aug.2005	Teaching Assistant (T.A.) in the Mech. Eng. Dep., Jordan University of Science and Technology

Software and Computer Skills

- Advanced knowledge of Microsoft ® Windows and Office package (Word, Excel, Access, PowerPoint, FrontPage and Outlook).
- Statistical Programs: Advanced knowledge of SPSS for windows and Minitab.
- CAD Software: professional in AutoCAD 2D and 3D, Excellent in Autodesk Mechanical Desktop.
- Programming Languages: Advanced knowledge in C++ and MATLAB.
- Computer Simulation Software: very good Knowledge in TRNSYS, good Knowledge in FLUENT.

Publications

- Hindiyyeh, M., **Jaradat, M.**, Albatayneh, A., Alabdellat, B., Al-Mitwali, Y., & Hammad, B. (2022). Sustainable Green University: Waste Auditing, German Jordanian University as a Case Study. *Frontiers in Built Environment*, 8, 884656. <https://doi.org/10.3389/fbuil.2022.884656>
- **Jaradat, M.**, Albatayneh, A., Juaidi, A., Abdallah, R., Ayadi, O., Ibbini, J., & Campana, P. E. (2022). Liquid desiccant systems for cooling applications in broilers

farms in humid subtropical climates. Sustainable Energy Technologies and Assessments, 51, 101902. <https://doi.org/10.1016/j.seta.2021.101902>

- **Jaradat, M.**, Al-Addous, M., Albatayneh, A. Dalala, Z., Barbana, N.: Potential Study of Solar Thermal Cooling in Sub-Mediterranean Climate. Applied Sciences 2020, 10, (7), 2418. <https://doi.org/10.3390/app10072418>.
- **Jaradat, M.**, Al-Addous, M., Albatayneh, A.: Adaption of an Evaporative Desert Cooler into a Liquid Desiccant Air Conditioner: Experimental and Numerical Analysis. Atmosphere 2020, <https://doi.org/10.3390/atmos11010040>.
- Al-Addous, M., **Jaradat, M.**, Bdour, M. Dalala, Z., Wellmann, J.: Combined concentrated solar power plant with low-temperature multi-effect distillation. Energy Exploration & Exploitation 2020, 014459872091307. <https://doi.org/10.1177/0144598720913070>.
- Al-Addous, M., **Jaradat, M.**, Albatayneh, A., Wellmann, J. Al Hmidan, S.: The Significance of Wind Turbines Layout Optimization on the Predicted Farm Energy Yield. Atmosphere 2020, 11(1), 117; <https://doi.org/10.3390/atmos11010117>.
- **Jaradat, Mustafa**: Thermochemical Energy Storage in Low Flow Liquid Desiccant Regenerator. International Energy Journal 2019. 19/3/159-176.
- **Jaradat, M.**, Fleig, D., Vajen, K., Jordan, U.: Field Test Investigations on a Solar Assisted Liquid Desiccant System for Drying Applications. Transactions ASME, Journal of Solar Energy Engineering 2019. J_ID: SOL DOI: 10.1115/1.4040841.
- Jordan, U., **Jaradat, M.**, Fleig, D., Vajen, K.: Untersuchungen eines offenen Absorptionsprozesses an Wärme- und Stoffübertragern. Deutsche Kälte-Klima-Tagung, 16-18.11.2016, Kassel, Germany.
- **Jaradat, M.**, Fleig, D., Vajen, K., Jordan, U.: Investigations of a Tube-Bundle, Liquid-Desiccant Dehumidifier for Summer Air Conditioning. Proceedings of the ISES EuroSun 2016 Conference, 12-14.10.2016, Palma (Mallorca), Spain.

Other publications can be found on [Google Scholar](#)



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