

## DR. ADNAN I. KHDAIR

Associate Professor, Department of Mechanical Engineering, King Abdulaziz University

### Education

<i>Degree</i>	<i>Field</i>	<i>Institution</i>	<i>Year</i>
PhD	Mechanical Engineering	The Ohio State University, CO, USA	1996
MS	Mechanical Engineering	The Ohio State University, CO, USA	1993
BS	Mechanical Engineering	Yarmouk University, Jordan	1986

### Academic Experience

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Full or Coordinator, etc.)</i>	<i>Part Time</i>
1996	2002	Jordan University of Science & Technology.	Assist Prof.		Full Time
2002	2005	Jordan University of Science & Technology.	Assoc. Prof.		Full Time
2005	2008	Philadelphia University.	Assoc. Prof.		Full Time
2008	2011	Jordan University of Science & Technology.	Assoc. Prof.		Full Time
2012	Date	King AbdulAziz University	Assoc. Prof.		Full Time

### Non Academic Industrial Experience (including Consultations)

<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position Description (Brief)</i>	<i>Full or Part Time</i>
1988	1991	Jor. Phosphate Mine Company	Engineer	Maintenance Engineer	Full Time
1995	1996	LUK industrial	R&D Engineer	Design Engineer /automatic transmission and brakes	Full Time
2005	2008	United Nation Development Program - UNDP	Regional Project Manager	Environmental, cleaner production and Waste management manager and expert	Full Time

### Funded Research Projects and Patents from the Past Five Years

1. King AbdulAziz University, Enhance strength and ductility of Al-SiC nanocomposites synthesized by Accumulative Roll Bonding, 2019, running
2. King AbdulAziz University, Influence of graphene addition on mechanical and physical properties of Cu-Mo nanocomposite, 2018, running
3. King AbdulAziz University, Thermal conductivity of composted olive mill pomace, 2017, running

### Certifications and Professional Registrations

1. Registered Professional Engineer in Jordan

## 2. ASHRE-member

### Current Membership in Professional Societies and Organizations

<i>Society/organization</i>	<i>Rank</i>	<i>Member Since</i>
1. Jordanian Professional Engineers Association	Member	1986
2. Alpha Epsilon - The Honour Society of Bio-system Engineers (U.S.A)	Member	1993
	Vice president	1993-96
3. Jordanian Society for the Control of Environmental Pollution	Member	1996
4. Jordanian Association for the Conservation of Water and Environment - JACA	Vice President	2005-Present
5. Jordan National Building Codes Directorate (JNBC) <b>Technical Committee Member</b> at the Ministry of Public works and Housing	Member	2008-Present

### Honors and Awards

1. Research Assistant, The Ohio State University, Columbus, Ohio, 1991-1996.
2. Alpha Epsilon - The Honor Society of Bio-system Engineers (U.S.A) (1993-1996)
3. President of the Graduate Students Council at the Ohio State University, 1993-1996
4. 2008 Philadelphia University Distinguished Faculty Award
5. Vice – President of the Jordanian Association for the Conservation of Water and Environment 2008-Present
6. Member of the Jordan National Building Codes Directorate (JNBC) 2008-Present.

### Institutional and Professional Services (*administration, committees, units, etc.*)

1. Regional Project Manager of the project “Integrated Waste Management for the Olive Oil Industry in Jordan, Syria and Lebanon – 2005-2008 – UNDP.
2. Academic advisor for more than 500 students, over 16 years, Mechanical Engineering Department, JUST, 1996-2011.
3. Vice – President of the Jordanian Association for the Conservation of Water and Environment 2008 Present
4. Member of the Jordan National Building Codes Directorate (JNBC) 2008-Present.
5. Member several Faculty of Engineering Committees (Curriculum, ABET), KAU, - present.

### Principal Publications/Presentations from the Past Five Years

Khdaire, I. A., Ghaida Abu-Rumman Sawsan I. Khdaire. (2019) Pollution Estimation from olive wastewater in Jordan. Heliyon 5(2019) e02386.

Khdaire, I. A., Sawsan I. Khdaire, Ghaida Abu-Rumman. (2019) Dataset on some soil properties improvement by the addition of olive pomace. Data in brief 24 (2109) 103878.

Khdaire, I. A., Sawsan I. Khdaire, Abu-Rumman. (2018) Evaluation the mechanical harvesting efficiency of olive with the application of fruit loosening spray. Agricultural Engineering International, 20(4):69-75.

Khdaire, I. A., and Ghaida Abu-Rumman. (2017) Evaluation of the environmental pollution from olive mills wastewater. Fresenius Envir. Bull. 26(4), 2537-2540.

Khshaba U. A., Khdaire A. I. 2017. Open hole compressive elastic and strength analysis of CFRE composites for aerospace applications. Aerospace Science and Technology 60:96-107

Khdair, I. A., and Ghaida Abu-Rumman. (2015) Effect of Olive Mills Wastewater (OMWW) on Soil Thermal Conductivity. *International Journal of Soil Science*, 10(2), 84-92.

Khdair, I.A.; Salam, Ayoub; Ghaida Abu-Rumman. (2015) Effect of Pressing Techniques on Olive Oil Quality. *American Journal of Food Technology*. 10, 176-183.

Recent Professional Development Activities (*Workshops, training, etc.*)

1. The application of nanotechnology in the environment. Jeddah, KSA, January 20-21, 2015 King Abdulaziz University.
2. National Road-Map for harmonized legal and regulatory framework for Renewable Energy and Energy Efficiency and on Project Financing. Amman, December 12, 2011.
3. The First International Conference on Environmental Management and Technologies – ICEMT 2010. Amman, November 1-3, 2010. ICEMT 2010 International Scientific Committee member.