



# Mussad Mohammed S Alzahrani

Lecturer – Mechanical and Energy Engineering Department

## Personal Data

Nationality | Saudi

Date of Birth | 24-02-1990

Department | Mechanical and Energy Engineering

Official IAU Email | [mmsalzahrani@iau.edu.sa](mailto:mmsalzahrani@iau.edu.sa)

## Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent

## Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2019-present	Ph.D. degree in Renewable Energy	University of Exeter	Stocker Rd, Exeter EX4 4PY
2015-2017	Master's Degree in Renewable and Clean Energy	University of Dayton	300 College Park, Dayton, OH 45469, USA
2008 -2012	Bachelor's Degree in Mechanical Engineering	Al Baha University	Prince Mohammed Bin Saud, AL Baha 65527, KSA

## PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Validating and Experimental an Ultrahigh Concentrated Photovoltaics
Master	Data-Based Energy Modeling to Predict Performance of Emerson Walk-in Freezers

## Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work			Date
Energy Engineer	United State of America	Industrial Assessment Center (IAC) at University of Dayton	300 College Park, Dayton, OH 45469, USA	2015 - 2017



### Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Lead Energy Engineer	Industrial Assessment Center (IAC) at University of Dayton - Department of Energy (USA)	2016-2017

### Scientific Achievements

#### Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	<a href="#">Mussad Alzahrani</a> Anurag Roy Katie Shanks Senthilarasu Sundaram Tapas K. Mallick	Graphene as a pre-illumination cooling approach for a concentrator photovoltaic (CPV) system	Solar Energy Materials and Solar Cells-Elsevier  April 2021
2	<a href="#">Mussad Alzahrani</a> Katie Shanks Tapas K. Mallick	Advances and limitations of increasing solar irradiance for concentrating photovoltaics thermal system	Renewable and Sustainable Energy Reviews-Elsevier  March 2021
3	Gaeet AlFalah Taher S. Maatallah <a href="#">Mussad Alzahrani</a> Fahd Ghallab Al-Amri	Optimization and feasibility analysis of a microscale pin-fins heat sink of an ultrahigh concentrating photovoltaic system	International Journal of Energy Research- Wiley  26 August 2020
4	Asmaa Ahmed <a href="#">Mussad Alzahrani</a> Katie Shanks Senthilarasu Sundaram Tapas K. Mallick	Effect of using an infrared filter on the performance of a silicon solar cell for an ultra-high concentrator photovoltaic system	Materials Letters-Elsevier  15 October 2020
5	<a href="#">Mussad Alzahrani</a> Asmaa Ahmed Katie Shanks Senthilarasu Sundaram Tapas Mallick	Optical losses and durability of flawed Fresnel lenses for concentrated photovoltaic application	Materials Letters-Elsevier  15 September 2020
6	<a href="#">Mussad Alzahrani</a> Hasan Baig Katie Shanks Tapas Mallick	Estimation of the performance limits of a concentrator solar cell coupled with a micro heat sink based on a finite element simulation	Applied Thermal Engineering-Elsevier  25 July 2020
7	Mishal Alsehli <a href="#">Mussad Alzahrani</a> Jun-Ki Choi	A novel design for solar integrated multi-effect distillation driven by sensible heat and alternate storage tanks	Desalination-Elsevier  15 October 2019



## Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Fluid Mechanics	EE 321	Teaching Assessment
2	Renewable Energy	ENRG 403	Teaching Assessment

## Last Update

03/03/2021