

Contact Information					
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					Google scholar: https://scholar.google.com/citations?user=qJ7ZzIAAAAAJ&hl=en&authuser=1
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					Education/ Academic qualifications (start with your most recent education first)
Year	School / University	Specialization	Degree		
2018	Cranfield University, UK	Renewable Energy (Concentrated Solar Power)	PhD		
2014	Mansoura University	Mechanical Power Engineering	MSc		
2008	Mansoura University	Mechanical Power Engineering	BSc		
Academic Employment History (start with your most recent education first)					
From:	To:	University / Organization	Title of Position		
2018	Present	Faculty of Engineering, Mansoura University	Assistant Professor		
2014	2018	Faculty of Engineering, Mansoura University	Assistant Lecturer		
2009	2014	Faculty of Engineering, Mansoura University	Demonstrator		
Administrative Positions:					
From:	To:	University / Organization	Title of Position		
2023	Present	Center of Excellence for Energy, Arizona State University, USA	Assistant Technical Advisor		
2021	Present	Faculty of Engineering, Mansoura University	Manager of Undergraduate Projects Unit		
2019	2020	Mansoura University	Deputy Director of Center of Renewable Energy (CORE)		
Teaching Experience (Courses, Language, Higher Education Only)					
#	Course	Academic Year	Year/Level	Department/Program	
1	Presentation Skills	2023/2024	3 rd Year	Mechanical Power Engineering	
2	Introduction to Wind Energy	2023/2024	Level 300	Renewable & Sustainable Energy Engineering Program	

I do hereby declare that the information furnished above is true to the best of my knowledge .

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3	Energy Conversion	2018/2019 to 2023/2024	3 rd Year	Mechanical Power Engineering
4	Heat Transfer and Air Conditioning	2018/2019 to 2023/2024	1 st Year	Textile Engineering
5	Fluid Mechanics and Thermodynamics	2021/2022 to 2023/2024	1 st Year	Textile Engineering
6	Basics of Heat and Fluids	2021/2022 to 2023/2024	Level 100	Mechatronics Engineering
7	Thermodynamics	2018/2019 to 2021/2022	Level 100	- Mechatronics Engineering - Renewable & Sustainable Energy Engineering Program
8	Thermal Engineering	2020/2021	1 st Year	Production Engineering and Mechanical Design
9	Computer Applications in Mechanical Engineering 2	2018/2019	2 nd Year	Mechanical Power Engineering

Publications:

Identify type of publication: book, refereed article, book chapter, journal article, non-refereed paper, major report, technical reports, research funds/grants

- O. Elharoun, **M. Tawfik**, I. I. El-Sharkawy, E. Zeidan, "Experimental and numerical study of photovoltaic performance integrated with a nanofluid-based optical filter and a compound parabolic concentrator," *Energy Conversion and Management*, Vol. 291, pp. 117278, **2023**.
- O. Elharoun, **M. Tawfik**, I. I. El-Sharkawy, E. Zeidan, "Experimental investigation of photovoltaic performance with compound parabolic solar concentrator and fluid spectral filter," *Energy*, Vol. 278, pp. 127848, **2023**.
- O. Elharoun, **M. Tawfik**, I. I. El-Sharkawy, E. Zeidan, "Experimental Study of Photovoltaic Performance Under a Compound Parabolic Solar Concentrator with a Nanofluid Spectral Filter," *Mansoura Engineering Journal*, Vol. 48, pp. 1-20, **2023**.
- M. Allam, **M. Tawfik**, M. Bekheit, E. El-Negiry, "Experimental Investigation on Performance Enhancement of Parabolic Trough Concentrator with Helical Rotating Shaft Insert," *Sustainability*, Vol. 14, pp. 14667, **2022**.
- M. Tawfik**, "A review of directly irradiated solid particle receivers: Technologies and influencing parameters," *Renewable and Sustainable Energy Reviews*, Vol. 167, pp. 112682, **2022**.
- M. Allam, **M. Tawfik**, M. Bekheit, E. El-Negiry, "Heat transfer enhancement in parabolic trough receivers using inserts: A review," *Sustainable Energy Technologies and Assessments*, Vol. 48, pp. 101671, **2021**.
- M. Essam, M. Mansour, M. El-Sheikh, **M. Tawfik**, "Design of a Closed Parabolic Trough Solar Concentrator Test Facility," *The International Undergraduate Research Conference*, Vol. 5, pp. 66-70, **2021**.
- RY Mokhtar, **MM Tawfik**, MN Sabry, "Semi-Analytic modeling of laminar forced convection in a rectangular duct for arbitrary boundary conditions and inlet temperature profile," *Mansoura Engineering Journal*, Vol. 45, pp. 9-18, **2020**.
- M. Tawfik**, X. Tonnellier, C. Sansom, "Light source selection for a solar simulator for thermal applications: A review," *Renewable and Sustainable Energy Reviews*, Vol. 90, pp. 802–813, **2018**.

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10. C. Sansom, **M. Tawfik**, X. Tonnellier, "Numerical study of lens geometry and material effects on allowed concentration ratio of a lens-lens beam generator solar concentrator," in the Proceedings of the 2nd Renewable Energy Sources - Research and Business RESRB 2017 Conference, **2017**.
11. **M. Tawfik**, "Experimental studies of nanofluid thermal conductivity enhancement and applications: A review," *Renewable and Sustainable Energy Reviews*, Vol. 75, pp. 1239–1253, **2017**.
12. **M. Tawfik**, X. Tonnellier, C. Sansom, "Parameters Influencing the Output Precision of a Lens-Lens Beam Generator Solar Concentrator," *International Journal of Energy and Power Engineering*, Vol. 11, pp. 428-436, **2017**.
13. **M. Tawfik**, M. Salem, "Key Parameters Affecting Concentration Ratio of a Solar Concentrator Based on Lens-Lens Beam Generator Configuration," in the Proceedings of the 43rd ASES National Solar Conference 2014, SOLAR 2014, **2014**.
14. H. Mansour, M.S. Mohamed, B. Djebdjan, **M. Tawfik**, "Simulation of Water Hammer in Viscoelastic Pipes," *Mansoura Engineering Journal*, Vol. 38, pp. 54-65, **2013**.
15. M. Salem, **M. Tawfik**, A. Hamed, "Analysis and Performance of Solar Concentrating-Tracking System," in the Proceedings of the 7th General International Engineering Conference, **2010**.

Supervision of Undergraduate Projects

#	Project Title	Academic Year	Dept./Program	Funding Amount	Funding body
1	Improvement of Commercial Refrigerators to Conserve Energy (ICRCE)	2019 /2018	Mechanical Power Eng.	EGP 14,000	ASRT
2	Building A Trough Concentrator for Hybridization (BATCH)	2019 /2018	Mechanical Power Eng.	EGP 35,000	ASRT
3	Compound Parabolic Concentrator (CPC)	2020 /2019	Mechanical Power Eng.	\$ 1,000	USAID
4	Improved Closed Parabolic Trough (CPT) Solar Concentrator	2021/2020	Mechanical Power Eng.	EGP 43,325	ASRT
5	Enhancing Energy Efficiency in University Buildings Using Piezoelectric Energy Harvesting System	2022/2021	Mechatronics Eng. Program	—	—
6	Aluminum Can Collecting Machine	2022/2021	Mechatronics Eng. Program	—	—
7	Solar Desalination by MED/CSP Technologies	2022/2021	Mechanical Power Eng.	—	—
8	Photovoltaic Cells Air-Cooler Augmented by Microchannel Technology	2022/2021	Mechanical Power Eng.	EGP 40,000	ASRT
9	Mobile Carbon Capture Unit For Ships Flue Gases	2022/2023	Mechanical Power Eng.	EGP 74,975	ASRT
10	Green Hydrogen Production From Textile Wastewater	2022/2023	Mechanical Power Eng.	EGP 59,000	ASRT
11	Design of an Ergonomic Office Chair	2022/2023	Mechatronics Eng. Program	—	—

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#	Project Title	Academic Year	Dept./Program	Funding Amount	Funding body
12	3D Scanner for Reverse Engineering Applications	2022/2023	Mechatronics Eng. Program	—	—

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