

	Contact Information		
	Name: Dr. Moataz Mostafa Abdelaziz		
	Address: 34/16 Hassaballah Elkfrawy street. New Damietta, Damietta Government, Egypt		
	Phone contacts: 01064093970 / 0572407888		
Email address: mmostafa@horus.edu.eg and Dr.moataz86@yahoo.com Google Scholar: https://scholar.google.com/citations?user=d6gsgDoAAAAJ&hl=en Research gate: https://www.researchgate.net/profile/Moataz-Abdel-Aziz ORCID: https://orcid.org/0000-0001-6287-7236			
Education/ Academic qualifications (start with your most recent education first)			
Year	School / University	Specialization	Degree
2019	Faculty of Engineering / Tanta University	Mechanical Power Engineering	PhD
2014	Faculty of Engineering / Mansoura University	Mechanical Power Engineering	M. Sc
2008	Faculty of Engineering / Mansoura University	Mechanical Power Engineering	Bachelor
Academic Employment History (start with your most recent education first)			
From:	To:	University / Organization	Title of Position
2020	now	Horus University / Faculty of Engineering	Lecturer
2019	2020	Higher Institute for Engineering and Technology in New Damietta	Lecturer
2014	2019	Higher Institute for Engineering and Technology in New Damietta	Teaching assistant
2009	2014	Higher Institute for Engineering and Technology in New Damietta	demonstrator
Administrative Positions:			
From:	To:	University / Organization	Title of Position
2022	now	Horus University / Faculty of Engineering	Manager of Quality Assurance unit
2021	2022	Horus University / Faculty of Engineering	Vice manager of Quality Assurance unit
2020	2021	Horus University / Faculty of Engineering	President of authentication committee
2019	2020	Higher Institute for Engineering and Technology in New Damietta	Vice president of academic guidance committee
2019	2020	Higher Institute for Engineering and Technology in New Damietta	President of annual self-report preparing committee
2015	2020	Higher Institute for Engineering and Technology in New Damietta	President of clearing and study tables committee

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

Dr. Moataz Mostafa Abdelaziz

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Teaching Experience (Courses, Language, Higher Education Only)

- 1- Lecturer (Engineering Drawing & projection – Heat Transfer – Mechanics – Professional Ethics- Thermodynamics – Principles of Mechanical power – Fluid mechanics – Engineering Economics – Air Conditioning – Fluid Mechanics – Hydraulic and Pneumatic control system), Faculty of Engineering, Horus University, 2020-now.
- 2- Lecturer (Engineering Drawing & projection – Heat Transfer – Mechanics 1 – Mechanics 2 – Engineering management), Higher Institute for Engineering & Technology at New Damietta, 2019-2020, 2020-2021
- 3- Demonstrator and Teaching assistant (Engineering Drawing & projection – Heat Transfer – Mechanics 1 – Mechanics 2 – Engineering Thermodynamics – Strength of materials – Fluid mechanics - Project Management – Engineering Economy) Higher Institute for Engineering & Technology at New Damietta, 2009 to 2019.

Publications:

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

a) Research Articles

1. M.E.H. Attia, M.E. Zayed, AE Kabeel, M. Abdelgaied, M. Arıcı, *Moataz M Abdel-Aziz*, A comparative experimental study on hemispheric distillation system integrated with metamorphic fabric materials for efficient and low-cost solar desalination, Thermal Science and Engineering Progress, Volume 47, Pages 102277, 2024.
2. M.E.H. Attia, M. Abdelgaied, A. Khelifa, and *Moataz M Abdel-Aziz*, Experimental study on energy and exergy assessments of a new PV system with a concave cover for active cooling and self-cleaning, Renewable Energy Focus, Volume 47, Pages 100512, 2023.
3. A. Khelifa, M.E.H. Attia, M. Abdelgaied, M. Arıcı, and *Moataz M Abdel-Aziz*, 3D numerical analysis of a photovoltaic thermal using bi-fluid: Al₂O₃–water nanofluid at various concentrations, International Journal of Thermofluids, Volume 20, Pages 100523, 2023.
4. *Moataz M Abdel-Aziz*, Reham Al-Sayad, and Basma M Ibrahim, Modelling of the Outdoor and Indoor Parameters Affecting the Thermal Performance of a Trombe Wall with Different Spaces, Journal of Engineering Research, Volume 7, Issue 5, Pages 169-172, 2023.
5. *Moataz M Abdel-Aziz* and R.S. Mohamed, Green Buildings on The Egyptian Coast: Prospects and Obstacles, Journal of Engineering Research, Volume 7, Issue 5, Pages 8-18, 2023.
6. M. Abdelgaied, M.E.H. Attia, M. Arıcı, and *Moataz M Abdel-Aziz*, Performance enhancement of a conical solar still by optimizing inclination angle, Solar Energy, Volume 264, Pages 112001, 2023.
7. M.E.H. Attia, A.E. Kabeel, M. Abdelgaied, K.M. Almohammadi, and *Moataz M. Abdel-Aziz*, A comparative assessment of innovative hemispherical solar distillers with cylindrical and conical fins: an experimental approach, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects Volume 45 Issue 4 Pages 12909-12923, 2023
8. A. Elbrashy, Y. Boutera, *Moataz M. Abdel-Aziz*, S. Dafea, and M. Arıcı, A review on air heating applications with evacuated tubes: A focus on series and parallel tube configurations, Solar Energy, 111996, 2023.
9. M.E.H Attia, A.E. Kabeel, M. Abdelgaied, R.S. Salama, A. Abdallah, *Moataz M. Abdel-Aziz*, and Y. Elmashad, Performance enhancement of hemispherical solar stills using different shapes of basin liners (sinusoidal and half-circle) incorporated with inverted solar collectors, Environment, Development and Sustainability, 1-19, 2023.

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10. A. Beggas, A.E. Kabeel, M. Abdelgaied, M.E.H. Attia, A.S. Abdulla, and **Moataz M. Abdel-Aziz**, Improving the freshwater productivity of hemispherical solar distillers using waste aluminum as store materials, Journal of Energy Storage 60, 106692, 2023.
11. AE Kabeel, Mohammed El Hadi Attia, **Moataz M Abdel-Aziz**, Wael M El-Maghlany, AS Abdullah, Mohamed Abdelgaied, Ravishankar Sathyamurthy, and Sayed A Ward, Modified hemispherical solar distillers using contiguous extended cylindrical iron bars corrugated absorber, Desalination and Water Treatment, 2023.
12. R. Sathyamurthy, W.M. El-Maghlany, M.E.H. Attia, A.E. Kabeel, M. Abdelgaied, **Moataz M. Abdel-Aziz**, A.S. Abdullah, and S. Vasanthaseelan, Hemispherical solar distiller performance utilizing hybrid storage media, paraffin wax with nanoparticles: An experimental study, Molecules, Vol. 27(24) 8988, 2022.
13. M.E.H. Attia, M. Abdelgaied, A.S. Abdullah, A. Bellila, and **Moataz M. Abdel-Aziz**, Performance assessment of the hemispherical solar distillers with the extended cylindrical iron fins: An experimental investigation, Alexandria Engineering Journal 61 (12), 11149-11157, 2022.
14. A.E. Kabeel, M Abdelgaied, MEH Attia, M Arıcı, and **Moataz M. Abdel-Aziz**, Enhancing the productivity of hemispherical solar distillers using dyed flax fibers as natural inexpensive porous materials, Journal of Cleaner Production 379, 134674, 2022.
15. A. Rahman, S. Haque, A. E. Kabeel, A. M. Athikesavan, M. B. Kamaludeen, and **Moataz M. Abdelaziz**, Current advances and challenges of environmental friendly green composites – a review, 4th International Conference on Engineering Science and Technology (ICEST2022), Luxor, Egypt, 16 and 17 February, 2022.
16. M. E. H. Attia, A. E. Kabeel, A. Bellila, W. M. El-Maghalany, M. Abdelgaied, S.A. El-Agouz, and **Moataz M. Abdelaziz**, Enhancing hemispherical solar still yield via wick materials and glass cover cooling, Desalination and Water Treatment, 2022.
17. M. E. H. Attia, A. E. Kabeel, S.A. El-Agouz, E. M. Lassaad, R. Sathyamurthy and **Moataz M. Abdelaziz**, Optimizing the performance of hemispheric solar still using nano-ZnO with cooling the glassy cover at a variable water flow rate, Applied Nanoscience, Springer, 2021.
18. M. E. H. Attia, A. E. Kabeel, M. Abdelgaied, **Moataz M. Abdelaziz**, A. Bellila and A. Abdullah, Optimal size of black gravel as energy storage materials for performance improvement of hemispherical distillers, Journal of Energy Storage, 43, Elsevier, 2021.
19. M. E. H. Attia, A. E. Kabeel, M. Abdelgaied, A. Bellila, and **Moataz M. Abdelaziz**, Optimal concentration of high thermal conductivity sensible storage materials (Graphite) for performance enhancement of hemispherical distillers, Desalination and Water Treatment, 2021.
20. A. E. Kabeel, M. G. Mousa, **Moataz M. Abdelaziz** and Ravishankar Sathyamurthy, Performance of the novel design thermoelectric cooling system, Heat Transfer Journal, 2020.
21. A. E. Kabeel, Wael M. El-Maghlany, Mohamed Abdelgaied and **Moataz M. Abdelaziz**, Performance enhancement of pyramid-shaped solar stills using hollow circular fins and phase change materials, Journal of Energy Storage, Elsevier, 2020.
22. **Moataz M. Abdelaziz**, Study the affecting parameters on spreading green building projects in Egypt, Tanta University 4th International Environmental Forum, TUEF 2020, Green Environment & Sustainable Development, Tanta, Egypt, March 2020.
23. A. E. Kabeel, M. G. Mousa, **Moataz M.A. Elsayed**, Theoretical study of thermoelectric cooling system performance, Engineering Research Journal, Tanta, Egypt, Vol. 1, March 2019.
24. A. E. Kabeel, M.G. Mousa and **Moataz Elsayed**, An extensive review on theoretical and experimental work of thermoelectric cooler, 5th International Conference on Scientific Research ISR-2019, Renewable Energy and Water Sustainability, Egypt, March 2019.

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25. E.A Elshafei, M.M. Awad, E. A. Elnegiry, and *Moataz Elsayed*, Investigation of solar collector performance using non-traditional fluids, Mansoura Engineering Journal, Egypt, Vol. 38, No. 4, April 2014.

b) Attend and Participate in Conferences, Seminars and Courses:

- 1- DU-IECRI 2022 Conference proceeding, 26-27 November 2022, Cairo, Egypt.
- 2- 4th International Conference on Engineering Science and Technology (ICEST2022), Luxor, Egypt, 16 and 17 February, 2022.
- 3- Tanta University 4th International Environmental Forum, TUEF 2020, Green Environment & Sustainable Development.
- 4- 5th International Conference on Scientific Research ISR-2019, Renewable Energy and Water Sustainability.
- 5- 8th international engineering conference Mansoura and Sharm El Sheikh 19-22 November, 2015

Other Relevant Experience

Consultancy, Community Involvement, Voluntary Work, Translation of books, Journal reviewing, mentoring of junior staff, Service to the discipline, Editing/refereeing for scholarly journals...etc.

- 1- Working (part time) as mechanical engineer in Damietta port authority from 2012 to 2016.
- 2- Working as a design mechanical engineer in Elshorouk Consultant office from 2010 till now.
- 3- Supervision of central air conditioning design for several projects.
- 4- Supervision of cooling refrigerator designs.
- 5- A member of young investors association in New Damietta.

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