

Personal Information

Name: Ahmed Ali Eltohamy Soliman

Nationality: Egypt

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Education

B.Sc.: Mechanical Engineering power, 2005 Shoubra Faculty of Engineering – Zagazig University. Benha Branch

M.Sc.: Mechanical Engineering power (Energy), “Study of Rotating Heat Pipes Performance ”, Shoubra Faculty of Engineering –Benha University, 2012.

PhD: Mechanical Engineering power (Energy), “Effect of Nanoparticles on Thermal Energy Cool Storage in A Spherical Capsule ”, Shoubra Faculty of Engineering – Benha University, 2016.

Academic Experience

Administrator: Shoubra Faculty of Engineering – Zagazig University. Benha Branch 2005-2012.

Assistant Lecturer: Shoubra Faculty of Engineering – Benha University. 2012-2016

Lecturer: Shoubra Faculty of Engineering – Benha University. 2016-2017
Lecturer: Northern Border University, College of Engineering, Mechanical Engineering Program. 2017 to present.

Publication

- 1- Ahmed A. Altohamy, M.F. Abd Rabbo, R.Y. Sakr, Ahmed A.A. Attia “Effect of water based Al_2O_3 nanoparticle PCM on cool storage performance” *Applied Thermal Engineering* 84 (2015) 331-338
- 2- Ahmed A.A. Attia *, Ahmed A. Altohamy, M.F. Abd Rabbo, R.Y. Sakr” Comparative study on Al_2O_3 nanoparticle addition on cool storage system performance” *Applied Thermal Engineering* 94 (2016) 449–457.
- 3- Heat transfer enhancement during freezing process of Nano Phase Change Material (NPCM) in a spherical capsule”, **Applied Thermal Engineering** 125 (2017) 1555–1564, R.Y. Sakr, Ahmed A.A. Attia , **Ahmed A. Altohamy**, Ismail M.M. Elsemary, M.F. Abd Rabbo .
- 4- , “Experimental investigation on the effect of using nano fluid (Al_2O_3 -Water) on the performance of PV/T system,” **Thermal Science and Engineering Progress.**, vol. 7, pp. 1–7, 2018. S. R. Abdallah, I. M. M. Elsemary, **Ahmed A. Altohamy**, M. A. Abdelrahman, A. A. A. Attia, and O. E. Abdellatif .
- 5- “Experimental Study on R404a Vapor Compression Refrigeration Cycle using Al_2O_3 -POE and CuO-POE Nanolubricants”, **Engineering and Scientific Research Journal**, Vol. 1, Apr. 2019, pp 1-8. Abdelrahman, **Ahmed A. Altohamy**, S. A. Elsayed, R.Y. Sakr.
- 6- “Experimental Investigation for Flow Boiling Heat Transfer Enhancement on R134a Using Nano refrigerants”, **Engineering and Scientific Research Journal**, Vol. 1, Apr. 2019, pp 48-56. Abdelrahman, **Ahmed A. Altohamy**, S. A. Elsayed, R.Y. Sakr.
- 7- “Encapsulation surface roughness effect on the performance of cool storage systems,” **J. Energy Storage**, vol. 28, no. October 2019, p. 101279, 2020.

Ahmed A. Altohamy, Ismail M. M. Elsemary, Saber Abdo, M. A. Abdelrahman, Ahmed A. A. Attia, R. Y. Sakr

- 8- "Exergy and parametric analysis of freeze desalination with reversed vapor compression cycle," **Thermal Science and Engineering Progress.**, vol. 19, no. July 2019, p. 100583, 2020. M. A. Abdelrahman, Saber Abdo, Eslam Hussein, **Ahmed A. Altohamy**, and Ahmed A. A. Attia .
- 9- "An experimental study of a newly designed freezing desalination unit equipped with reversed vapor compression cycle", **Case Studies in Thermal Engineering** 28(2021)101610, **Ahmed A. Altohamy**, M.A. Sharafeldin*, M.A. Abdelrahman, Ahmed A.A. Attia, Ismail M.M. Elsemary.

Field of Interest:

1. Fluid Mechanics.
2. Heat transfer.
3. Thermodynamics.
4. Measurements.
5. Turbomachines.
6. Refrigeration and air conditioning

Training Course

- Developing the capacity of members of the Center courses and faculty leaders at the University of Banha:
 1. Scientific publishing.
 2. University administration.
 3. Research Project competitive local and global.
 4. Self-Assessment and External Audit.
- Development Course university teacher, Faculty of Education - Benha University.
- Training course in computer:
 1. Windows
 2. Word
 3. Power Point
 4. Excel

Project		
Serial	Project title	Place of the Activity
1	Air conditioning load calculation	Faculty of Engineering at Shoubra-Cairo-Egypt
2	Water distillation by freezing.	Faculty of Engineering at Shoubra-Cairo-Egypt
3	Thermal Energy Storage Using Paraffin Wax as Phase Change Material	Faculty of Engineering at Shoubra-Cairo-Egypt
4	Heat transfer over flat plate.	Faculty of Engineering at Shoubra-Cairo-Egypt
5	Effect of vibration on heat transfer process	Faculty of Engineering at Shoubra-Cairo-Egypt
6	Centrifugal pump performance	Faculty of Engineering at Shoubra-Cairo-Egypt
7	Cool storage in air conditioning application	Faculty of Engineering at Shoubra-Cairo-Egypt
8	Design of water desalination system by freezing	Engineering college at northern border university-Saudi arabia
9	Cool storage in air conditioning application	Engineering college at northern border university-Saudi arabia
10	Design of water desalination system by freezing	Engineering college at northern border university-Saudi arabia

Skills	
Languages	English (Very good –Verbal and Written) Arabic (Basic)
IT	Computer programmer and model creative in the field of thermo-fluid applications, User of most windows operating systems and MS office Suite packages- have extensively used Microsoft Word, Excel, Power Point.
	1. Participation in student activities scientific, social and Sports College.

2. Participation in the work of the Special unity of quality faculty for accreditation .
3. Participation in Environment Week at the University of Banha.

My Pages

1- Google Scholar

https://scholar.google.com.eg/citations?hl=en&user=Wq9_KiUAAAAJ&view_op=list_works&gmla=AJsN-F6plTLI7x7aOekoboAcwnNPEDYIFyANAYnVN8LsCkWjC86XN3uxVeW1Ux3GuqpDcOPx5DR2sxV3jxk66ypcxnYgoS_5O0TxzquuTV63-MvHh0XC6UaNGv3TdAytny6uHjMpiUQ5Ozorie2lenOGUCFMa2_2Kg

2- Research Gate

https://www.researchgate.net/profile/Ahmed_Eltohamy

3- Home page

<http://www.bu.edu.eg/staff/ahmedsoliman3>