Mohamed Sharaf, M.Sc. Curriculum Vitae

Personal Information

Name: Mohamed Abdel Razek Maghawery Sharaf Title or Job: Asst. Lecturer – Mechanical Engineering

Date of Birth: August 15, 1995 **Place of Birth:** Benha – Egypt

Nationality: Egyptian

Gender: Male

Marital Status: Single

Job Address: Mechanical Engineering Department - Benha Faculty of

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Google Scholar Profile:

https://scholar.google.com.eg/citations?user=Do2C40gAAAAJ&hl=en

Scopus Profile:

https://id.elsevier.com/settings/redirect?code=Cl2F6vo8EIVzxiAyfK9JBRZLVnTxcNcAUQFv-kK

Education

- M.Sc., Energy Recourses Engineering, 2021, Benha Faculty of Engineering, Benha University, Benha, Egypt.
- B.S., Mechanical Power Engineering, 2018, Benha Faculty of Engineering, Benha University, Benha, Egypt. (With an excellent grade and an honors degree)

Current Occupation

Asst.Lecturer of Mechanical Engineering, Mechanical Power Engineering Department, Benha Faculty of Engineering- Benha University, Benha, Egypt. (November. 2018 – present).

Research Interest Areas

- Renewable energy applications and management
- Solar energy applications
- Photovoltaic systems
- Solar desalination systems
- Energy storage systems
- Exergy evaluation of energy systems

Professional experience

- Teaching Assistant (teaching and research assistant), Mechanical Engineering Department, Benha Faculty of Engineering, Benha University, Egypt (November 2018 - Present).

Taught Courses

- 1. Thermodynamics (I)
- 2. Thermodynamics (II)
- 3. Heat Transfer
- 4. Power plants Technology
- 5. Fluid Mechanics
- 6. Thermo Fluid
- 7. Engineering drawing
- 8. AutoCAD software

Journal Publications

-Accepted

- **1.** <u>M. Sharaf</u>, A. S. Huzayyin, and M. S. Yousef, "Performance enhancement of photovoltaic cells using phase change material (PCM) in winter," *Alexandria Eng. J.*, 2021, doi: https://doi.org/10.1016/j.aej.2021.09.044. (Impact Factor: 3.732)
- **2.** M. S. Yousef, **M. Sharaf**, and A.S. Huzayyin, "Energy, exergy, economic, and enviroeconomic assessment of a photovoltaic module incorporated with a paraffinmetal foam composite: An experimental study," *Energy*, vol. 238, p. 121807, 2022, doi: https://doi.org/10.1016/j.energy.2021.121807. (**Impact Factor: 7.147**)
- **3.** <u>M. Sharaf</u>, M. S. Yousef, and A. S. Huzayyin, "Review of cooling techniques used to enhance the efficiency of photovoltaic power systems," Environ. Sci. Pollut. Res., no. 0123456789, 2022, doi: 10.1007/s11356-022-18719-9. (Impact Factor: 4.223)
- **4.** <u>M. Sharaf</u>, M. S. Yousef, and A.S. Huzayyin, "Year-round energy and exergy performance investigation of a photovoltaic panel coupled with metal foam/phase change material composite," *Renew. Energy*, vol. 189, pp. 777–789, 2022, doi: 10.1016/j.renene.2022.03.071 (Impact Factor: 8.001)

-Under Review

1. M. Sharaf, M. S. Yousef, and A.S. Huzayyin, "Efficiency enhancement of photovoltaic module using an aluminum foam matrix filled with phase change material (PCM) under hot climate conditions," submitted to Environmental Science and Pollution Research.

Theses

1. M. Sharaf, "Performance Enhancement of Photovoltaic Cells Using Phase Change Material (PCM)" MSc. Thesis, Mechanical Engineering Department, Benha Faculty of Engineering, Benha University, Egypt, (December 2021).

Reference Professors

- 1. **Professor. Ahmed Soliman Huzayyin**, Ph.D. Mechanical Engineering Department, Benha Faculty of Engineering, Benha University, Egypt. Tel: +201223334580, E-mail: ahmed.hozain@bhit.bu.edu.eg
- 2. **Assistant Professor. Mohamed S. Yousef**, Ph.D. Marie Skłodowska-Curie Postdoctoral Fellow University Carlos III de Madrid, Spain. Tel: +34 603 01 12 22, E-mail: mohamed.mohamed@ejust.edu.eg
- 3. **Assistant Professor. Sherif Araby Gouda,** Ph.D. Department of Mechanical and Aerospace Engineering, School of Engineering and Digital Sciences, Nazarbayev University, Kazakhstan. Tel: +7 7714134030, E-mail: Sherif.Gouda@nu.edu.kz
- 4. **Associate Prof. Mohamed Ahmed Abdelrahman**, Ph.D. Mechanical Engineering Department, Shobra Faculty of Engineering, Benha University, Egypt. Tel: +201146474882, E-mail: mohamed.abdelrahman@feng.bu.edu.eg