

Mohamed Ramadan Gomaa Behiri

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Al-Hussein Bin Talal University-Jordan

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Google scholar: [Mohamed Ramadan Gomaa Behiri](https://scholar.google.com/citations?user=MVs9GIAAAAJ&hl=en&citsig=AMD79opJ58clbibZVhHD6c3-ka3rJ_aDHA)

https://scholar.google.com/citations?user=MVs9GIAAAAJ&hl=en&citsig=AMD79opJ58clbibZVhHD6c3-ka3rJ_aDHA

<http://www.bu.edu.jo/staff/behiri5>



Personal Data

Name : Mohamed Ramadan Gomaa Behiri.
Date & place of Birth : December, 2,1979, Toukh.
Home Address : El-Safa, Toukh, Al Qalyubiyah.
Nationality : Egyptian.
Military Service : Postponed.
Social Status : Married.
ID No. : 27912021403157
Passport No. : A28616088 (Valid to 10/8/2028)
Mobile Phone : 00962-770219738 (Jordan).

Permanent Work

Occupation : Associate Professor, Department of Mechanical Engineering, Benha Faculty of Engineering, Benha University, Benha, Al-Qalyubiyah, Egypt.
Field of Work : Mechanical Department,
Major: **Mechanical Power Engineering and Energy.**
Minor: **Thermo-Fluid, Energy, and Renewable Energy.**
Research Field : Energy, Renewable energy systems, Solar energy systems (PV, concentrating, hybrid solar system, water and air heater, environmental impact, and solar bonds), Desalination systems, Thermal power systems, Absorption cooling systems, Wind energy systems, and optimizing system.
Address : Department of Mechanical Engineering, Benha Faculty of Engineering, Benha University, Benha 13512, Al- Qalyubiyah, Egypt.
Phone : 00962-770219738.
Fax : -----

Education

PhD. : Mechanical Engineering (Power Plants Based on Renewable Energy Sources), December 2011, Institute of Energetics and Electrical Engineering, National Polytechnic University of Armenia, Yerevan, Armenia.
University : Yerevan State University.

Dissertation Title : "Multi-Mirror Solar Energy Concentrating Photovoltaic and Thermal System Design".

M.Sc. : Mechanical Engineering (Dept. of Mechanical Power Engineering & Energy), March 2007, Minia University, Egypt.

University : Minia University, Egypt.

Thesis Title : "Investigation of Flow through Asymmetric Plane Diffusers".

B.Sc. : Mechanical Engineering (Dept. of Mechanical Power Engineering & Energy), final year grade is Very Good (83.27 %), May 2003, Faculty of Eng., Minia University.

University : Minia University, Egypt.

Graduation Degree : Very Good (78.92% Accumulated).

Project Degree : Excellent (93%).

Project Name : Experimental Measurements on an Education, Continues Combustion.

Foreign Language : - Arabic (Mother Tongue).
- English.

Awards

- Honor and Appreciation from Benha University regarding the Outstanding Scientific Research Performance and International Publishing; Thirteen Round 2025.
- Honor and Appreciation from Benha University regarding the Outstanding Scientific Research Performance and International Publishing; Twelve Round 2024.
- Honor and Appreciation from Benha University regarding the Outstanding Scientific Research Performance and International Publishing; Eleven Round 2023.
- Honor and Appreciation from Benha University regarding the Outstanding Scientific Research Performance and International Publishing; Ten Round 2022.
- Honor and Appreciation from Benha University regarding the Outstanding Scientific Research Performance and International Publishing; nine Round 2021.
- Honor and Appreciation from Benha University regarding the Outstanding Scientific Research Performance and International Publishing; Seven Round 2019.
- Honor and Appreciation from Benha University regarding the Outstanding Scientific Research Performance and International Publishing; Six Round 2018.
- Scientific Excellence in Faculty of Engineering, Mutah University, 2018-2019.
- Gaining a scholarship from the Egyptian Ministry of High Education to study PhD in State Engineering University of Armenia (Polytechnic), Yerevan, Armenia, 2008.
- The first of 2003-Class, Mechanical Engineering (Dept. of Mechanical Power Eng. & Energy), Faculty of Engineering, Minia University, Minia, Egypt.

Computer Skills

- ☹ **IBM Platform.** (All Windows / Word / Excel / Access / Power Point / AutoCAD / SolidWorks)
- ☹ **Program Languages.** (Fortran77, 90, and starting in MATLAB)
- ☹ **Computer Program.** (Stanford gravity, origin 2018 and Tec plot)
- ☹ **Computer Certificate.** (ECDL/ICDL and ICTP)

Some Companies I Have Training

- ☞ Cairo Oil Refining Company ➡ (Hydraulic Machines and Gas Turbine).
- ☞ Iron and Steel Helwan factory ➡ (Power Plants, Solar Photovoltaic Systems).

- ☞ Khalda Petroleum Company $\implies$ (Valves, Solar Thermal System).
- ☞ National Research Center (NRC) $\implies$ (Solar Energy, Solar Energy Systems, Solar Dryer).
- ☞ Tabbín Institute for Metallurgical Studies (TIMS) $\implies$ (Solar Energy, Solar Energy Systems, Solar Photovoltaic Systems).

Professional Lab Experience

- ✓ Fluid Mechanics Lab
- ✓ Advanced thermo and fluid Mechanics Lab
- ✓ Renewable Energies labs (**Solar Energy Lab**, Wind Energy Lab,...ets.)
- ✓ Thermodynamic and Heat Transfer Lab
- ✓ Hydraulic Machines Lab
- ✓ Aero-dynamic Lab
- ✓ Internal Combustion Engine Lab

Work Experience

Since 15/09/2023 till now,

Associate Professor at Renewable Energy Department, Faculty of Engineering, Al Hussein Bin Talal University, Ma'an, Jordan.

Since 16/05/2024 till now,

Associate Professor at Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an, Jordan.

Since 15/09/2019 till 15/05/2024,

Assistant Professor at Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an, Jordan.

Since 01/09/2016, till 14/09/2019,

Assistant Professor at Mechanical Engineering Department, Faculty of Engineering, Mutah University, Al-karak, Jordan.

Since 01/08/2013 till 31/08/2016,

Teaching (Assistant Professor) at Mechanical Engineering Department, Benha Faculty of Engineering, Benha University, Benha, Egypt.

Since 23/01/2012 till 31/07/2013,

Teaching (Assistant Professor) at Mechanical Engineering (Mechanical Power Engineering & Energy Department), Faculty of Engineering, Minia University, El-Minia, Egypt.

Since 28/10/2008 till 01/12/2011,

PhD. student (Scholarship) and teaching assistant at the State Engineering University of Armenia, Yerevan, Armenia.

Since 03/2007 till 26/10/2008,

Teaching assistant at Mechanical Engineering (Mechanical Power Engineering & Energy Department), Faculty of Engineering, Minia University, El-Minia, Egypt.

Since 12/2/2004 till 2/2007,

Demonstrator at Mechanical Engineering (Mechanical Power Engineering & Energy Department), Faculty of Engineering, Minia University, El-Minia, Egypt.

Teaching Experience

- Teaching since 2019 in the Faculty of Engineering, Al-Hussein Bin Talal University till now (Full time).
- Teaching since 2016 in the Faculty of Engineering, Mutah University until 2019 (Full time).
- Teaching since 2013 in the Benha Faculty of Engineering, Benha University until 2016 (Full time).
- Teaching since 2004 in the Faculty of Engineering, Minia University until 2013 (Full time).
- Taught at the Faculty of Engineering, October 6 University, Egypt, from 2013 to 2015 (Part-time).
- Taught at the University of Science and Technology, Egypt, 2013, 2015 (Part-time).
- Taught at the Faculty of Engineering, South Valley University, Qena, Egypt from 2012 to 2014 (Part-time).
- Taught at the Faculty of Engineering, Benha University, Al-Qalyubia, Egypt, 2012 (Part-time).

Some Courses I Have Taught

Undergraduate

▪ Fluid Mechanics I and II	▪ Gas Dynamic	▪ Turbo Machinery
▪ Thermo Dynamic I and II	▪ FORTRAN	▪ Hydraulic Machine
▪ Heat Transfer I and II	▪ Refrigeration	▪ Energy Efficiency
▪ Renewable Energy	▪ Air Condition	▪ Numerical Methods
▪ Power Plants	▪ Cryogenic	▪ Eng. Mathematics
▪ Energy Management		(Engineering Analysis)
▪ Thermo-Fluid and Heat transfer	▪ Energy Conversion and Storage	
▪ Measurements and Measurement Device	▪ Numerical Application on Heat and Fluid	
▪ Internal Combustion Engine (ICE)	▪ Dynamics and Statics	
▪ Theory of Machine	▪ Mechanical Drawing	
▪ Mechanical Design	▪ Control I and II	
▪ Materials	▪ Environmental and Pollution	
▪ Geothermal Energy	▪ Seawater Desalination by Renewable Energy	

Postgraduate

▪ Advanced Thermodynamics	▪ Photovoltaic System
▪ Renewable Energy System	▪ Energy Conversion and Storage
▪ CSP (Concentrated Solar Power)	▪ Solar Energy System
▪ Energy Efficiency	▪ Solar Desalination Systems
▪ Wind Energy	▪ Geothermal Power Systems

Quality Assurance

- 1- Chair of the committee for determining the qualification level and its hours in the National framework in the field of Renewable Energy Engineering.
- 2- Criteria design, preparation, and review committee for the qualification in the field of Renewable Energy Engineering.
- 3- Criteria design, preparation, and review committee for the qualification in the field of Mechanical Engineering.
- 4- Member of various quality standards (Jordan National Qualifications Framework).
- 5- Matrix of Linking Course Learning Outcomes with Program Qualification Learning Outcomes.

- 6- Course Placement Summary (Total of hours of program courses by Jordan National Qualifications Framework).
- 7- Course level mapping in the levels of the Jordan National Qualification Framework.
- 8- Course and Program Description (Jordan National Qualifications Framework).
- 9- Group Leader for Standard No. 12, Faculty Members.
- 10- Member of various quality standards (Egypt National Qualifications Framework).
- 11- Course and Program Description (Egypt National Qualifications Framework).

Theses Directed

- 1- **Mais Abdulhamid Al-Momani** "Sustainable Desalination via Vacuum-Driven Low-Temperature Distillation with Solar Thermal Pre-heating" *MSc.* Al-Hussein Bin Talal University. Under preparation starts in Jun. 2025.
- 2- **Mohammad Alrawajfeh** "Passive Solar Desalination Combined with Concentrated Photovoltaic-Thermal System" *MSc.* Al-Hussein Bin Talal University. Under preparation starts in October 2023.
- 3- **Maiyada Ahmad Al-Amr** "Life Cycle Assessment of A Photovoltaic System And Compare It To Other Power Source" *MSc.* Al-Hussein Bin Talal University. Starts in October 2022 and was defended in August 2024.
- 4- **Sahem Salman Abadlah** "Investigation and Performance Enhancement of Solar Chimney in South Jordan Climate" *MSc.* Al-Hussein Bin Talal University. It started in October 2022 and was defended in November 2024.
- 5- **Areen H. Al-Khalafat** "Investigation and Performance Enhancement of Solar Dryer in Jordan Climate" *MSc.* Al-Hussein Bin Talal University. Starts March 2022 and Defended in Nov. 2023.
- 6- **Ahmad A. Aqeel** "Improving Cooling Efficacy of Photovoltaic Panels Through the Use of Crystal Nano-Cellulose (CNC) Nanofluid for Improved Solar Power Output, and Better Utilization of Renewable Energy" *Ph.D.* It started in June 2021 and was defended in November 2025.
- 7- **Mohammed S. Harb** "Optimization of Concentric-Tubular CPC Water Desalination System with Phase Change Material" *MSc.* Al-Hussein Bin Talal University. Under preparation starts October 2020.
- 8- **Fakhriah K. Al-Atyiat** "Generating Biogas through Sludge Conversion by Anaerobic Process" *MSc.* Al-Hussein Bin Talal University. She started in October 2020 and was defended in January 2023.
- 9- **Sae'da Mohammed Alkhsabah** "An Optimal Sizing of Hybrid Solar PV/Wind Power System to Supply A Certain Load" *MSc.* Al-Hussein Bin Talal University. Start Feb. 2020 and Defended.
- 10- **Mahmoud Adnan Awajan** "Solar Water Desalination Powered by Concentrated System" *MSc.* Al-Hussein Bin Talal University. Under preparation, start in Feb. 2020 and Defended.
- 11- **Ala'a Al-Bawwat** "Optimal Design and Economic Study of a Hybrid Renewable Energy System to Desalinate Seawater" *MSc.* Al-Hussein Bin Talal University. Start in Feb. 2020 and defend in March 2021.

- 12- **Abd Alrahman S. Awajan** "Performance Analysis and Comparison of Different Photovoltaic Technology Under Ma'an Conditions" MSc. Al-Hussein Bin Talal University. Under preparation start October 2019 and Defended.
- 13- **Nadiah Al-Farajat** "CO₂ Emissions and Energy Performance Using Life Cycle Assessment Method of Al-Rajef Wind Farm" MSc. Al-Hussein Bin Talal University. Defended in November 2020.
- 14- **Moath Attalah Altarawneh** "Waste Heat Recovery in Cement Plant with Thermo-Electric Generator Implementation" MSc. Mutah University. Defended in July 2019.
- 15- **Monther fake ayesh alsboul** "Thermophysical properties investigation of transition metal oxide nanofluids (Cobalt oxide, Erbium oxide) and their application to solar energy collectors" **Ph.D.** Universiti Malaysia Terengganu (UMT), 21030 Kuala Terengganu, Terengganu, Malaysia. Start in October 2018 and defend in March 2023.
- 16- **Mazen M. Al-Oran** "Optimization Global Maximum Power Point for Photovoltaic Using Arduino Microprocessor Based on MPPT under Partial shading" MSc. Mutah University. Defended in May 2019.
- 17- **Faris M. Hussein Al-Masoodi** "Performance Evaluation of Solar Photovoltaic Panel under Different Cooling Methods" MSc. Mutah University. Defended in May 2019.
- 18- **Ahmad A. Aqeel** "Theoretical study of a Combined Concentrated PV/Thermal System" MSc. Mutah University. Defended in July 2018.
- 19- **Nesrien S. Al-Dmour** "Solar Gasification: Production of Synthesis Gas from Carbonaceous Materials" MSc. Mutah University. Defended in July 2018.
- 20- **Shadi M. Alshagarin** "Reduction of CO₂ Emission by Using Wind Turbine Plants" MSc. Mutah University. Defended on May. 2017.
- 21- **Omar A. Al-Qudah** "Organic Rankine Cycle Powered by Combined Solar-Waste Heat Recovery System" MSc. Mutah University and defended on Jan. 2017.
- 22- **Mohammed J. Al Shammri** "Performance Analysis of Oryx PV Plant (OPVP) in Ma'an, Jordan" MSc. Mutah University and defended in July 2016.

Membership in Examining Committees for Graduate Studies

- 1- *Zain Abdullah Darweesh*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2025. Thesis Title: "Factors affecting the production of green hydrogen by electrolysis of water by proton exchange membrane (PEM)".
- 2- *Sahem Salman Abadlah*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2024. Thesis Title: " Investigation and Performance Enhancement of Solar Chimney in South Jordan Climate".
- 3- *Maiyada Ahmad Al-Amr*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2024. Thesis Title: " Life Cycle Assessment of A Photovoltaic System And Compare It To Other Power Sources".
- 4- *Aseel Y. Al-Saidat*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2023. Thesis Title: "Study the Effect of Ambient Conditions on the Performance of Wind Turbines in Maan-Al rajef Wind Farm".

- 5- *Areen H. Al-Khalafat*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2023. Thesis Title: "Investigation and performance enhancement of solar dryer in Jordan climate".
- 6- *Njoud Huseen Al-Habahbeh*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2023. Thesis Title: "Effect Of Catalysts On Performance And Emission In A Combustion Diesel Engine Using Biodiesel Derived From Non-Edible Plant "Handal", Jordan".
- 7- *Monther fake ayesb alsboul* PhD in Universiti Malaysia Terengganu (UMT), Terengganu, Malaysia 2023. Thesis Title: "Thermophysical properties investigation of transition metal oxide nanofluids (Cobalt oxide, Erbium oxide) and their application to solar energy collectors".
- 8- *Fakriah Khaled Al-Atyat*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2023. Thesis Title: "Generating Biogas through Sludge Conversion by Anaerobic Process".
- 9- *Reham AL-Disi*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2022. Thesis Title: "Geothermal Energy Utilization for Heating, Ventilating and Air Conditioning Systems at AL-Bayt University".
- 10- *Osama Ahmed Nawasreh*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2022. Thesis Title: "Improving Efficiency of Auxiliary Boiler in INDO-Jordan Chemical-Shidiah (Case Study)".
- 11- *Ali Radi Hasan*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2022. Thesis Title: "Analysis and Opportunities for a Solar Pumping System for Agriculture in North Shouneh Area (Mu'aath Ben Jabal Municipality) of Jordan".
- 12- *Wa'ad Madallah Al-Hasanat*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2022. Thesis Title: "Modeling and Simulation of Solar Cell using PCID".
- 13- *Jehad Tawfiq AL Bdour*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2021. Thesis Title: "Analysis and Study of Hybrid Renewable Energy System for Green Building to Improve Efficiency and Reduce GHG Emissions".
- 14- *Laith Mohammad Arrfou*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2021. Thesis Title: "Development of Sustainable Renewable Energy System to Reduce Carbon Emission in Irrigation Stations at Off Grid Remote Area by Hybrid System".
- 15- *Walaa Farouq Al-Omari*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2021. Thesis Title: "Geothermal Energy Harvesting in Jordan and its Applications".
- 16- *Ahmed Khanger Abu Saif*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2021. Thesis Title: "Effect of Dust on the Wind Turbine Nacelle: Case Study (Ma'an Project Farm)".
- 17- *Hazem Abdul Qader Al-Shakhanbeh*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal

University, Ma'an 2021. Thesis Title: "Novel Vehicle Ventilation System Powered by Solar Energy".

- 18- *Ala'a Khalil Al-Bawwat*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2021. Thesis Title: "Optimal Design and Economic Study of a Hybrid Renewable Energy System to Desalinate Seawater".
- 19- *Nadiyah Abd-Alkareem AL-Farajat*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2020. Thesis Title: "CO₂ Emissions and Energy Performance using Life Cycle Assessment Methods of AL-Rajef Wind Farm".
- 20- *Waed Younes AL-Twaissi*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2020. Thesis Title: "Impact of Accumulated Dust on Photovoltaics Cells Performance and Efficiency in Ma'an Region".
- 21- *Shahed Mohammad Farajat*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Mu'tah University, Karak 2020. Thesis Title: "Design a Solar Power Air Conditioning System for the Engineering Faculty Building at Mutah University".
- 22- *Maryam Abdallah Al-Hajaya*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Mu'tah University, Karak 2020. Thesis Title: "Measures of Waste Avoidance via Energy Recovery in Municipalities of Jordan: Case Study of Al-Karak".
- 23- *Faris Mohammad Hussein Al-Masoodi*, MSc. in Renewable Energy-Mechanical Engineering Department, Faculty of Engineering, Mu'tah University, Karak 2020. Thesis Title: "Performance Evaluation of Solar Photovoltaic Panel under Different Cooling Methods".
- 24- *Enas Abdallah Kulaib Al-Fanatseh*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2019. Thesis Title: "Study of Solar Cooling System used Lithium Bromide – Water (LIBR – H₂O)".
- 25- *Moath Attalah Altarawneh*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Mu'tah University, Karak 2019. Thesis Title: "Waste Heat Recovery in Cement Plant with Thermo-Electric Generator Implementation".
- 26- *Abdallah AL-Daher*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2019. Thesis Title: "Design of Parabolic Trough Collector System for Domestic Heating and Air Conditioning".
- 27- *Shadi M. Alshagarin*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Mu'tah University, Karak 2018. Thesis Title: "Reduction of CO₂ Emission by Using Wind Turbine Plants".
- 28- *Mohammad AL-Rfooh*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2018. Thesis Title: "Shading Effects on Photovoltaic Arrays Output: A Proposed Solution to Minimize Effect of Symmetrical Shade on Photovoltaic Solar Systems".

- 29- *Nesrien Saleh Al-Dmour*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Mu'tah University, Karak 2018. Thesis Title: "Solar Gasification: Production of Synthesis Gas from Carbonaceous Materials".
- 30- *Mahmoud Riad Ibrahim Alburdaini*, MSc. in Renewable Energy Engineering, Mechanical Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an 2018. Thesis Title: "Design and Optimization of a Small Wind Turbine 20 kW".

Journal Editor and Reviewer

- 1- International Journal of Processes (MDPI, IF: 3.309) **Guest Editor**.
https://www.mdpi.com/journal/processes/special_issues/4Z1E7I9220.
- 2- Clean Energy Science and Technology (CEST) **Editor**.
<https://cae.usp-pl.com/index.php/cest/about/editorialTeam>
- 3- Applied Chemical Engineering (Thermal Power and Energy Systems) **Guest Editor**.
<https://systems.enpress-publisher.com/si.php/index/detail?id=142&jid=23>.
- 4- International Journal of Artificial Intelligence Applications **Editor**.
<https://ijaia.com/index.php/IJAIA/about/editorialTeam>
- 5- International Journal of Automotive Engineering and Technologies **Editor**.
<https://dergipark.org.tr/en/pub/ijaet>
- 6- International Journal of Automotive Science And Technology **Editor**.
<https://dergipark.org.tr/en/pub/ijastech>.
- 7- International Scientific Journal (Journal of Environmental Science) **Editor**.
<http://www.scientific-journal.com/editors.html>.
- 8- Scienxt Journal of Mechanical and Machine Engineering (SJMMME) **Editor**.
<https://scienxt.com/sjmet-editorial-board/>
- 9- Scienxt Journal of Mechanical Engineering & Technology (SJMET) **Editor**.
<https://scienxt.com/sjmet-editorial-board/>
- 10- Scienxt Journal of Manufacturing and Industrial Production (SJMI) **Editor**.
<https://scienxt.com/sjmi-editorial-board/>
- 11- Scienxt Journal of Alternate Energy Sources and Sustainability (SJAESS) **Editor**.
<https://scienxt.com/editorial-board-sjaess/>
- 12- Scienxt Journal of Thermal Engineering and Applications (SJTEA) **Editor**.
<https://scienxt.com/editorial-board-sjteat/>
- 13- Scienxt International Journal Heat Transfer and Thermal Engineering (SIJHTE) **Editor**.
<https://scienxt.com/editorial-board-sijhte/>
- 14- IET Renewable Power Generation (IF: 3.93) **Reviewer**.
<https://ietresearch.onlinelibrary.wiley.com/journal/17521424>
- 15- International Journal of Energy Conversion and Management (Elsevier, IF: 9.709) **Reviewer**.
<https://www.journals.elsevier.com/energy-conversion-and-management>.
- 16- The International Journal on the Science and Technology of Desalting and Water Purification (Elsevier, IF: 9.501) **Reviewer**.
<https://www.journals.elsevier.com/desalination>
- 17- The International Journal of Renewable Energy (Elsevier, IF: 8.001) **Reviewer**.
<https://www.journals.elsevier.com/renewable-energy>.
- 18- Electrical Engineering Journal (Springer, IF: 1.836) **Reviewer**.
<https://www.springer.com/journal/202>
- 19- International Journal of Energy Research (Wiley, IF: 5.164) **Reviewer**.

<https://onlinelibrary.wiley.com/journal/1099114x>

- 20- International Journal of Energy Sector Management (Emerald, Q₂) **Reviewer**.
<https://www.emerald.com/insight/publication/issn/1750-6220?>
- 21- Cleaner Engineering and Technology (Elsevier) **Reviewer**.
<https://www.journals.elsevier.com/cleaner-engineering-and-technology>.
- 22- Energies (MDPI, IF: 3.252) **Reviewer**.
<https://www.mdpi.com/journal/energies>
- 23- MRS Energy & Sustainability (Springer, IF: 4.3) **Reviewer**.
<https://www.springer.com/journal/43581>
- 24- Sustainability (MDPI, IF: 3.889) **Reviewer**.
<https://www.mdpi.com/journal/sustainability>
- 25- Applied Sciences (MDPI, IF: 2.838) **Reviewer**.
<https://www.mdpi.com/journal/applsci>
- 26- Journal of Applied Engineering Science (Scopus, Q₂) **Reviewer**.
<http://www.engineeringscience.rs>

International Publishing Websites

- 1- University website:
(<http://www.bu.edu.eg/staff/behiri5>)
- 2- Web of Science ResearcherID I-6427-2018
(<https://www.webofscience.com/wos/author/record/I-6427-2018>)
- 3- ORCID ID: 0000-0003-4799-6119 (<https://orcid.org/0000-0003-4799-6119>)
- 4- Scopus Author ID: 57201740873
(<https://www.scopus.com/authid/detail.uri?authorId=57201740873>)
- 5- Google Scholar (Mohamed Ramadan Gomaa Behiri) or
(https://scholar.google.com.eg/citations?user=MVs9G_IAAAAJ&hl=en&citsig=AMD79opJ58clbibZVhHD6c3-ka3rJ_aDHA).
- 6- ResearchGate: (https://www.researchgate.net/profile/Mohamed_Behiri).
- 7- Mendeley: (<https://www.mendeley.com/profiles/mohamed-gomaa25/>).

IPW	Citation	h Index
Google Scholar	> 1800	23
Research Gate	> 1350	22
Scopus	> 1350	20
Web of Science	> 750	16

Publications

1. **Mohamed R. Gomaa**, Ala'a K. Al-Bawwat, Hegazy Rezke. Seawater Reverse Osmosis Desalination: A Review of Classifications, Challenges, Methods of Driving and Future Prospects. **Renewable and Sustainable Energy Reviews**. (Under Review).
2. Ahmad Abdul Kareem Ahmad Aqeel, **Mohamed R. Gomaa**, Sami Salama Hussen Hajjaj. Experimental study of cellulose nanocrystals (CNC), Aluminum oxide (Al₂O₃), and hybrid (CNC + Al₂O₃) nanofluids for cooling photovoltaic module. Applied Thermal Engineering 280 (2025) 128322. <https://doi.org/10.1016/j.applthermaleng.2025.128322>.

3. Ayah A. Al-Dala'een, Mohamed R. Gomaa, Handri Ammari, Zaid A. Al Muala. Theoretical Modelling of Solar-Powered Refrigeration System for Highway Truck Transportation. *International Review on Modelling and Simulations (IREMOS)* 18 (4), 2025.
4. Mohamed R. Gomaa. Theoretical Model Evaluation of Different Parameters Affecting Wind Turbine Energy Generation and Performance. *International Journal on Engineering Applications (IRECON)*, 13 (4), 2025.
5. Mohsen Ahmed, **Mohamed R. Gomaa**. Analytical Expression of Parabolic Trough Solar Collector Performance. *International Journal on Engineering Applications (IREA)* 13 (2), 2025. <https://doi.org/10.15866/irea.v13i2.24538>.
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Conferences

- 1- Technical Organizing Committee (TOC) and online speakers, the 5th International Conference on Solar Photovoltaic Technology (CSPT 2024) will be held from December 6-8, 2024 in Sanya, China. <https://www.academicx.org/CSPT/2024/>.
Presentation Title: Concentrated Photovoltaic Thermal System Collector.
- 2- Online speakers: the 2nd International Conference on Renewable and Sustainable Energy will be held on September 26-28, 2024, in Paris, France. <https://renewableengconfex.org/experts>.
Presentation Title: Photovoltaic Thermal System Collector.
- 3- International Conference on Environmental Science & Green Energy, May 13-15, 2024, in Paris, France. <https://mindspaceconferences.com/environmentalscience/>
Presentation Title: Temperature distribution modeling of PV and cooling water PV/T collectors through cross-fined channel box.
- 4- Organizing Committee, World Congress on Renewable Energy and Sustainable Technologies, November 04-05, 2024 in Rome, Italy. <https://www.timesscientificgroup.com/events/renewable-energy-sustainable-technologies/organizing-panel>
Presentation Title: Renewable and Sustainable Energy System (Solar Energy System).
- 5- Online speakers: the 4th International Conference on Solar Photovoltaic Technology (CSPT 2023) will be held on December 8-10, 2023, in Sanya, China. <http://www.deconf.org/conference/CSPT2023/>
Presentation Title: Renewable Energy System (Concentrated Solar Energy System).
- 6- Eminent Speakers and Oral presentation, European Congress on Renewable Energy and Sustainable Development. November 16-17, 2023, in H10 Roma Città, Rome, Italy. <https://renewableenergyconferences.com>
Presentation Title: Theoretical model of concentrating Photovoltaic/Thermal (CPV/T) system based on Linear Mirrors
- 7- Online oral presentation, 4th International Conference on Solar Photovoltaic Technology (**CSPT 2023**), which will be held on December 8-10, 2023, in Sanya, China.
- 8- Online oral presentation, 3rd International Conference Sustainable Development - Regional and Local Dimensions 2023. Department of Development Policy and Marketing at the Institute of Economics and Finance, WULS-SGGW.

- 9- Oral presentation, Third International Conference on Advances in Mechanical, Industrial and Mechatronics Engineering (**ICAMIME 2019**), Tunis – Tunisia, 19-20 April 2019.
- 10- Keynote speaker and oral presentation, The Ninth Jordanian International Mechanical Engineering Conference (**JIMEC 2018**), Amman – Jordan 16-17 October 2018.
- 11- Oral presentation, 3rd International Conference on Environment and Renewable Energy (**ICERE**) 2016, 25-27 May, Munich-Germany.
- 12- Oral presentation, 6th International Green Energy Conference – VI (**IGEC-VI**), Eskisehir, Turkey, 5-10 June 2011.

Books

- 13- **Mohamed Ramadan Gomaa Behiri, Ruben Vardanyan (2016-06-21)**, "Multi-Mirror Solar Energy Concentrating PV/T System Design", LAP LAMBERT Academic Publishing. ISBN: 978-3-659-89741-2. Reproduced from PhD Thesis. (DOI: 10.13140/RG.2.1.1014.5529)
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- 14- **Mohamed Ramadan Gomaa Behiri**, Magdy Bassily, Ramadan Bassiouny (2016-08-24), "Investigation of Flow through Asymmetric Plane Diffusers", LAP LAMBERT Academic Publishing. ISBN: ISBN-13: 978-3-659-93604-3, ISBN-10: 3659936049, EAN: 9783659936043. Reproduced from MSc. Thesis. (or
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