Curriculum Vitae

Name	**Ahmed Hamza H. Ali**
Title	Prof. Dr.- Ing.
Place & Date of Birth	Elsharkia- Egypt, December 16, 1963.
Marital Status	Married with three children
Email	ah-hamza@aun.edu.eg drahmedhamza@yahoo.com
Telephone	Home: +20-88-2345695, +20-55-2821656 and Mobile: +20-122-3971265
Address	Work: Mechanical Power Engineering Department, Faculty of Engineering, Assiut University, Assiut 71516, Egypt (Office +20-88-2411146, Fax +20-882080572) Home1: Appt. 13, 53 Geser El-Sultan St., El-Sadat, Assiut 71111, Egypt Home2: Appt 202, El-Medina Plaza Building No 2, 302 St, Taksim Elkodah, Samouha, Alexandria 21311, Egypt Home3: Salamant, Belbies, Sharika 44628, Egypt

Education

- Doctoral Degree in Engineering, Muroran Institute of Technology, Hokkaido, Japan, 1999.
- MSc. Degree in Mechanical Power Engineering, Assiut University, Egypt, 1992.
- BSc. Degree in Mechanical Power Engineering, Assiut University, Egypt, 1986.
- High school, Anshas El-Ramel Higher Secondary School, Anshas El-Ramel, El-Sharkia, Egypt, (from October 1978 to June 1981)

Work Experience

Academic:

- **Director, Environmental Studies and Research Center, Assiut University**, Assiut 71516, Egypt (October 2023 – Now)
- **Vice President for Training and Society Affairs-New Cairo Technological University, New Cairo, Cairo, Egypt (16th Feb 2023 – December 2023)**
- **Professor and Chairman of Mechanical Power Engineering Department**, Faculty of Engineering, Assiut University, Assiut 71516, Egypt (July 2021 – July 2023)
- **Professor of Refrigeration and Air-Conditioning**, Mechanical Power Engineering Department, Faculty of Engineering, Assiut University, Egypt (June 2009 – present)
- **Fellow, Professor Academy of Scientific Research &Technology**, Cairo, Egypt (November 2015 – 2018 and 2021 till now)
- **Professor and Chairman of the Mechanical Engineering Department**, Faculty of Engineering, Assiut University, Assiut 71516, Egypt (July 2017 – December 2021)
- **Director, Center of Research Excellence for Energy Resources and Management (CRE-ERM) (Dean Level),** Egypt-Japan University of Science and Technology (E-JUST), New Borg El-Arab, Alexandria, Egypt, (January 2014– until January 2015)
- **Chairperson of Energy Resources Engineering Department**, Egypt-Japan University of Science and Technology (E-JUST), Egypt, (Feb 2013- December 2013)
- **Chairperson of Energy Resources and Environmental Engineering Department**, Egypt-Japan University of Science and Technology (E-JUST), Egypt, (July 2010 – Feb 2013)
- **Professor of Renewable Energy**, Egypt-Japan University of Science and Technology (E-JUST), Egypt (May 2010 – until January 2015)
- **Associate Professor**, Mechanical Engineering Department, Faculty of Engineering, Assiut University, Egypt (May 2008– June 2009)
- **Professor of Energy Systems,** Fraunhofer Institute for Energy Systems and Environmental Engineering, UMSICHT, Oberhausen, Germany (March 2006-April 2008)
- **Associate Professor of Heat Transfer**, Mechanical Engineering Department, Faculty of Engineering, Assiut University, Egypt (June 2004– Feb. 2006)
- **Assistant Professor**, Mechanical Engineering Department, Faculty of Engineering, Assiut University, Egypt (April 1999-June 2004)

	• **Research Associate**, Department of Mechanical Systems Engineering, Muroran Institute of Technology, 27-1 Mizumoto-Cho, Hokkaido 050-8585, JAPAN (April 1998 - March 1999) • **Teaching Assistant**, Department of Mechanical Systems Engineering, Muroran Institute of Technology, 27-1 Mizumoto-Cho, Hokkaido 050-8585, JAPAN. (April 1996 - September 1997). • **Assistant Lecturer**, Mechanical Engineering Department, Faculty of Engineering, Assiut University, Egypt (December 1992 - September 1994). • **Demonstrator** (teaching and research assistant), Mechanical Engineering Department, Faculty of Engineering, Assiut University, Egypt (June 1987 - November 1992).
Professional and Practice Experiences	• Certified Consultant and Professional Engineer of Planning Environmental Engineering (Specialization Environmental Impact Assessment), Egypt Engineers Syndicate (License no. 1373/3 Egypt 2025- until now) • Certified Consultant and Professional Engineer of New and Renewable Energy Engineering and Energy Efficiency, Egypt Engineers Syndicate (License no. 1373/3 Egypt 2012- until now) • Certified Consultant and Professional Engineer of Refrigeration and Air-Conditioning, Egypt Engineers Syndicate (License no. 1373/3 Egypt 2019- until now) • Industrial Energy Audit and Efficiency • Solar Heating, Solar Cooling, and Solar Power Generation Systems • Energy and buildings, including HVAC (Heating, Ventilating, and Air Conditioning) Systems • Thermal Process Engineering Systems

List of Mega Projects and Duties

Project no.	Project name	duty	contract value	contracting entity/client	project location/ country	duration (mm/yy to mm/yy)	expert months provided	The main activities I performed in this project	objectives
1.	Clean Energy Promotion Using Solar Photovoltaic Systems in the Arab Republic of Egypt	Project Local Manager	12 Million USD	JICA/Japan	New Borg El-Arab, Alexandria, Egypt	May 2010 to Jan 2015	May 2010 to Jan 2015	For all project stages, I served as the Egypt-side designer and engineering consultant partner with Oriental Consultants Co., Ltd., Tokyo, from the site survey through to the finalization of the tender documents. This includes, but is not limited to, plant design, obtaining a local license, and related activities. Also, I prepared the project progress reports.	Turnkey Solar PV plant of 1.2 MWp capacity at New Borg El-Arab, Alexandria, Egypt (Peak Power Generation Capacity 1200kW in 2012) (The project has not yet started the construction stage)
2.	SHAAMS-Strategic Hubs for the Analysis and Acceleration of the Mediterranean Solar Sector. Cross-Border Cooperation within the European Neighbourhood and Partnership Instrument (project I-A/2.3/234)	Egypt Project Manager	3.5 million Euro	(ENPI) - Mediterranean Sea Basin Joint Operational Program, EU	(Spain, Italy, France, Greece, Lebanon, Jordan, and Egypt-Alexandria)	Nov. 2012- Oct. 2015.	Nov. 2012 - Jan.2015	I was the technical team leader in gathering the required data and preparing Egypt's state-of-the-art report on Energy resources and needs. This is followed by the solar energy sector, with a proposal for long-term recommended policies to utilize solar energy resources. I prepared the project progress reports.	The SHAAMS project aims to raise public awareness of solar energy by transferring and implementing good practices in legal, regulatory, economic, and organizational issues, as well as financing mechanisms, to facilitate the adoption of solar technologies.

3.	Documentation for the project (Promoting low-carbon technologies for cooling and heating in industrial applications) Country: Egypt, GEF Project ID: 4790	National and local Expert in solar heating and cooling technologies and system design	6 million USD	UNIDO/head office	Cairo/ Egypt	3 Month	Sept. 2013 to Dec. 2013	For this short-term task, I searched for available industrial solar heating and cooling plants in Egypt. I visited these project sites and found six industrial solar-heating plants and two solar-cooling plants. Some of these plants are operational, while others are not, and some of their hardware has disappeared. Therefore, based on the available documentation for these projects, I prepared a technical status report to support my evaluation and recommendation for the suggested project that can be directed for implementation.	It is to report to the project manager in Austria the main project activities, which should cover tasks based on the current state of the art in ground-solar heating and cooling in Egypt.
4.	"Solar-Driven Adsorption Cooling for Residential Air-Conditioning" -System Evaluation and Comparison to Conventional Chillers, GERF 612-IB 08/012	Project Manager	200K Euro	International Bureau of the German Federal Ministry of Education and Research IBFM-Bonn and STDF-Egypt	Assiut/ Egypt	June 2009-June 2012 (There are 1.5-year frozen project activities due to the 25th January revolution)	June 2009 -June 2012	I led the project in Egypt, prepared the design tender documents, and supervised installation and system operation. I prepared the project progress reports.	This applied research project includes designing, installing, and operating an integrated solar-powered residential cooling plant in a hot, arid area. It is based on electrical energy consumption, environmental impact, and long-run costs. The project objective is also to compare, experimentally and analytically, a residential-scale solar-driven system with an electrically driven vapor compression chiller under operating conditions in hot areas.

Scientific and Professional Memberships	• Vice chairman of the Aeronautics and Space Engineering Committee, Egypt Engineering Syndicate, Egypt, June 2024-March 2026 • Member of the Higher Committee for Consultations, Egypt Engineering Syndicate, Egypt, June 2024- March 2026 • Member of the Mechanical Engineering Examination Committee for Consultant, Egypt Engineering Syndicate, Egypt, June 2024- March 2026 • Member of the Egyptian National Scientific Committee to examine the scientific production to fill the associate and full professors' positions for mechanical power engineering, automotive engineering, and aviation engineering- Cairo - September 2016 until Oct 2025 • General Secretary and Fellow Professor, Electricity and Energy Committee, Academy of Scientific Research and Technology, Egypt, from November 2015 until May 2018, and from December 2021 until Now. • Member of Scientific Council, The Egyptian Center for the Advancement of Science, Technology, and Innovation (ECASTI), Egypt, June 2014 until Now • Member of the World Society of Sustainable Energy Technologies, UK, August 2013 until now. • Egyptian Engineering Energy Consultancy, from 2012 to the present.

	• International Solar Energy Society (ISES) from 1994 until now. • Engineering Consultations and Studies Centre, Faculty of Engineering, Assiut University, Egypt, from 1999 to the present. • The Egyptian Engineering Syndicate from 1986 until now. • The Heat Transfer Society of Japan (from 1999 to 2002) • Japan Society of Mechanical Engineers (JSME) (from 1999 to 2004)
Awards and Prizes	• Regional Winner of the African Continent (North Africa) -Titans Building Nations, South Africa, September 2016. (https://issuu.com/ceoglobal/docs/titans_digital_magazine_2016./c/sml8ale) • The Arab Fund Fellowships Program, Kuwait, The distinguished scholar award (March 2010 - Feb 2011) • Alexander von Humboldt Foundation, Germany, Return Home Fellowship (May 2008 - April 2009) • Alexander von Humboldt Foundation, Germany, Fellowship (March 2006 - April 2008) • Finland Ministry of Trade, Finland, Awards (September 6-17, 2004) • Association of International Education, Japan, Honours Professional (April 1998 - March 1999) • Japanese Government (MONBUSHO), Japan, Scholarship (Oct.1994 - March 1998) • The Finnish Government scholarship, Finland, Award (June 1985 – Sept. 1985) • Scholarship from the Government of Egypt (undergraduate study from October 1982 to June 1986) due to being the top student in a class of approximately 70 students.
Teaching Experiences from 1987 to the present	*Undergraduate Level:* Energy Efficiency and Audit, Renewable Energy and Energy storage, Solar Energy, Unconventional Energy Systems, Refrigeration and Air-Conditioning, Refrigeration and Environmental Control, Industrial Ventilation, Heat Transfer, Heat Exchangers, Cooling of Electronics Equipment, Basics of FORTRAN language Programming, Engineering Drawing, and Mechanical Engineering Laboratories. *Graduate Level:* Refrigeration systems, Industrial ventilation, Thermal energy storage, Energy Efficient Buildings, Energy Systems, Hybrid Power Generation Systems, Sustainable Energy Utilization, Energy management, Solar Cooling and Heating, Air-Conditioning and Clean Room Technology, Night Sky Radiation Cooling, Sustainable Energy, Renewable Energy Utilization, Advanced Topics in Heat Exchangers, Advanced Topics in Convective Heat Transfer, Advanced Topics in Thermal Radiation Heat Transfer, Heat and Mass Transfer in Pours Media, Fluidized Bed

Number and themes of supervised Master's and Ph.D. students from 1999 to the present

No.	Degree	Thesis title	
1	PhD	Development of A Small-Scale Wind Concentrator Turbine	completed
2	PhD	Theoretical and Experimental Study of the Performance of an Adsorption Cooling System Using Activated Carbon/R134a Pair	completed
3	PhD	Study on Heat and Mass Transfer in Adsorbent Pairs for Development of Compact Adsorption Chiller	completed
4	PhD	Renewable Energy Utilization for New Cities in Hot Arid Areas: A Proposed Strategy for Egypt	completed
5	PhD	Performance and Optimization of a Solar-Driven Small-Scale Adsorption Cooling System	completed
6	PhD	Studies on Solar-Powered Vapor Absorption Cooling System Integrated with Hybrid Thermal Energy Storage	completed
7	PhD	Performance optimization of a thermoelectric cooling system with different finned heat transfer surfaces	In progress
8	PhD	Development of a cooling system for electric vehicle power battery packs	In defence
9	PhD	Optimization of Hybrid Steam Injection and Nanofluids for Enhanced Oil Recovery	In progress
10	MSc	Numerical Study of Some Classes of Boundary Heat and Mass Transfer Problems- Case Study of Urea Prilling Process	completed
11	MSc	Performance Assessment of Turbojet Engine Operated with Alternative Biodiesel	completed
12	MSc	Effect of Dust Deposition and Ambient Air Temperature on Performance of Photovoltaic Modules	completed
13	MSc	Study of The Characteristics of Photovoltaic Modules Under Different Environmental Conditions	completed
14	MSc	Optimization of Thermal Storage System Integrated in a Solar-Powered Adsorption Cooling System	completed
15	MSc	Experimental and Simulation Study of the Thermal Comfort Conditions within Recent Designed Governmental Primary Schools in Egypt	completed
16	MSc	Performance of a Solar-Driven Refrigerator with Thermal Cold Storage for Agriculture Crops Reservation	completed
17	MSc	Assessment of Energy Status for Existing Office Buildings using the World Standards of Energy Star System	completed
18	MSc	Effect of Flow Field Passage Configurations on the Performance of Proton Exchange Membrane Fuel Cells (PEMFCs)	completed
19	MSc	Performance Study on Shrouded Dual Rotor Wind Turbine for Small and Micro Wind Systems	completed
20	MSc	Comparative Study between Variable Refrigerant Flow (VRF) Systems and Conventional Systems based on Economics and Energy Efficiency	completed
21	MSc	Characteristics of Industrial Ventilation Plume for Thermal Point Source	In progress
22	MSc	Investigation of the Performance of a Green Hydrogen Generation System Utilizing Dual Solar Energy Converted Forms to Energize an Electrolyzer	In Defence
23	MSc	Investigation of Integrated Energy Efficiency and Solar Heat in Industrial Processes Based on Cost-Performance and Environmental Impact	In progress

Research and Professional Activities Topics Carried out

- Solar Energy Cooling and Heating Systems and Solar Power Generation
- Renewable Energy Systems
- Energy and Buildings, including (HVAC)
- Energy Audit and Efficiency
- Industrial Energy Efficiency

	● Thermal Energy Storage Systems. ● Nocturnal Radiation Cooling Systems for building cooling, ● Design and performance of small-scale thermally driven chillers ● Photovoltaic (PV) and Concentration Photovoltaic (CPV) Modules Thermal Regulation Systems ● Convection with radiation heat transfer at a solid boundary ● Combined heat and mass transfer
Research Projects	(1) The Researcher of the project titled: Addressing Skills Gaps and Mismatches in the Emerging Energy Sector Transition: A Prospectus for the Common Future Skill Trends in Tunisia, Albania, and Egypt. **ETF (European Training Foundation) Jan 2024- Dec 2024** (2) Co-PI (Egypt Side) of the project titled: "Enhancing Research Environment and Innovation in Renewable Energy and Sustainability in Egypt (E-RISE)" Lead PI Cardiff Metropolitan University, UK, **Founded by British Council Going Global Partnerships (GGP) Programme** 2023-2024, From January 2024 to Dec 2024. (3) Local Consultant for the project titled: The Future of Skills: Case study of the Energy Sector in Egypt. Led by Fondazione Giacomo Brodolini srl SB and Erre Quadro srl **for ETF (European Training Foundation),** July 2022-Dec 2023, https://www.etf.europa.eu/sites/default/files/2023-06/Egypt_Energy%20sector_country%20report_EN.pdf (4) The project's PI is titled "Design and Performance of CSP Technology Effective in Hybrid PV/T Systems in Hot Areas using Nanofluids." Submitted to Joint Research Grant Under the India-Egypt Agreement on Science and Technology Cooperation, Egypt, 2019 (5) CO-PI of a project titled: Self-Sustained District Cooling and Heating System with Under-Ground Heat Exchange for NEOM city. Submitted to KSA International Collaboration Grant with King Abdulaziz University, KSA, 2019 (6) CO-PI of a project titled: Solar Driven Transportable Refrigerator for Postharvest Crops Handling from Desert Areas Farms. KSA International Collaboration Grant with Taif University, KSA, 2019 (7) CO-PI of a project titled: Business models for PV-battery systems – economic analysis and comparison of decentral systems and public buildings, a Joint project between Assiut University and Fraunhofer-Institute for Solar Energy Systems ISE (Sept 2018- Now) (8) PI of a project titled: Solar-driven transportable cold storage for postharvest crops in desert areas of Egypt, JESOR---Development Academy of Scientific Research and Technology, Egypt, May 2016- June 2018 (9) CO-PI of a project titled: A Dynamic Techno-Economic Analysis of the Energy System of Egypt, Academy of Scientific Research and Technology, Egypt, Sept 2016- Feb 2018 (10) CO-PI of a project titled: The future vision of energy needs in Egypt for 2030-Phase one, Academy of Scientific Research and Technology, Egypt, April 2016- June 2017. (11) PI- Project titled: SHAAMS- Strategic Hubs for the Analysis and Acceleration of the Mediterranean Solar Sector. Cross-Border Cooperation within the European Neighbourhood and Partnership Instrument (ENPI)-Mediterranean Sea Basin Joint Operational Program (Spain, Italy, France, Greece, Lebanon, Jordan, and Egypt (project I-A/2.3/234, November 2012-January 2015. (12) CO-PI of a project titled: Development of a Small-Scale Thermal-Driven Adsorption Air Conditioner with the aid of Nanotechnology, King Saud University, Sept 2012- August 2014 (13) PI of a project titled: Enhancement of the product quality exit from Urea Prilling Tower in Hot, humid months, ABU-Qair Fertilizer Co., Alexandria, April 2010- Dec 2011 (14) CO-PI of a project titled: Dual Renewable Energy GOLF CAR, King Saud University, May 2011- Sept 2011 (15) PI of a project titled: Solar-Driven Absorption Cooling for Residential Air-Conditioning. 621 GERF (German-Egyptian Research Fund) June 2009-June 2012. Science and Technology Research Fund (STDF) (16) Optimization Study on Operation of Solar-Thermal Driven Plants for Cold Production, German Ministry of Economy (Project No. FKZ 0327406D-2007) (17) Cool Home with Micro-Polygen (Entwicklung einer hochkompakten, thermisch angetriebenen Kleinst-Kältemaschine für die Wohnraumklimatisierung als Ergänzung zu dezentralen Kraft-Wärme-Kopplungs-Aggregaten) Deutsche Bundesstiftung Umwelt, Germany, (Project no. 1187/-1173/-1195-2006)

(18) Untersuchung und Optimierung eines Verfahrens zur solaren Kälteerzeugung auf Basis von Parabolrinnekollektoren und einer Dampfstrahlkältemaschine. Deutsche Bundesstiftung Umwelt, Germany (Project No. AZ 22692- 2006)

(19) Experimental Evaluation of the Performance of Marmox COSY STONE Radiant Heating Panels in Comparison with Conventional Convective Oil Heater, Chemicals for Modern Building (CMB) Co., Cairo, Egypt, 2005

Reviewer for the following Int. Journals

- Int. J of Refrigeration, Energy, and Buildings, Int. J of Air-Conditioning and Refrigeration, ASHRAE Transactions, Solar Energy, Energy, Applied Energy, Applied Thermal Engineering, ASME J of Heat Transfer, Int. J of Heat and Mass Transfer, Heat and Mass Transfer, J. of Membrane Science, and J. of Measurements

- The organizer and General Secretary of the 7th Int. Conf. On Future of New and Renewable Energy in the Arab World, February 12- 14, 2013, Assiut, Egypt. Joint Conference between EJUST and Assiut University
- The organizer, General Secretary of the 12th Int. Conf. for Development and Environment in the Arab World, "Sustainable Development and Confronting Environmental & Climate Changes: Challenges and Solutions", 25-27 February 2024, Assiut University

Languages/Special Skills

	Speaking	Reading	Writing
Arabic	**Native**	**Native**	**Native**
English	**Excellent**	**Excellent**	**Excellent**
Japanese	**Good**	-	-
German	**Good**	-	-

Scopus H-index 23, total citations 1520, as of February 27, 2026

1- **ORCID profile: https://orcid.org/0000-0002-8734-6762**
2- **Scopus profile: https://www.scopus.com/authid/detail.uri?authorId=7403355399**
3- **Google Scholar: https://scholar.google.com/citations?user=2-GxmR0AAAAJ&hl=en**

Editor and Co-editor for the following Journals

1- Editor- **Assiut University Bulletin for Environmental Research (ISSN:1110-6107)**
https://auber.journals.ekb.eg/journal/editorial.board
2- **International Journal of Energy and Water Resources (ISSN 2538-3604) Springer**
https://www.springer.com/journal/42108/editors
3- **Journal of Engineering and Applied Science ISSN: 2536-9512 (electronic), ISSN: 1110-1903 (print)**
https://jeas.springeropen.com/about/editorial-board
4- **Journal of International Society for Science and Engineering (JISSE) Print ISSN 2636-4425, Online ISSN 2682-3438**
https://jisse.journals.ekb.eg/journal/editorial.board
5- **Journal of Engineering Sciences (JES) Print ISSN 1687-0530, Online ISSN 2356-8550**
https://jesaun.journals.ekb.eg/journal/editorial.board

List of Publications

Int. J. with SCI (Thomson Reuters) and Refereed Int. J.

Year 2026

(1) **Ahmed Hamza H. Ali**, and Jillan Ahmed Hamza H. Ali (2026). Experimental Performance of Three Solar Thermal Powered Cooling Systems Incorporating Energy Storage with Learned Lessons. (submitted to Journal of Energy Storage)

(2) Dinesh Kumar Sharma, Dilip Sharma, Manu Augustine, Vishnu Agrawal, and **Ahmed Hamza H. Ali,** (2026). Design and Performance of Hybrid Thermal Energy Storage Integrated within a Solar-Powered Vapor Absorption Cooling System for Milk Chilling (submitted to Applied Thermal Engineering)

(3) Ahmed Khaleel Al-Okbi, Yuri Vitalievich Vankov, Shamil Gayazovich Ziganshin, and **Ahmed Hamza Ali** (2026) Solar-assisted hybrid air-conditioning system for reducing building cooling energy demand under extreme hot-climate conditions JBE-D-26-02138(submitted to Journal of Building Engineering)

(4) **Ahmed Hamza H. Ali**, Mahmoud N. Abdel-Moez, and Jillan Ahmed Hamza H. Ali (2026). Experimental Study on Performance and Optimization of Hot and Cold Thermal Energy Storage within a Solar-Thermal Driven Cooling System. (submitted to Unconventional Resources)

(5) Muhamad Jasim AL-Helail, Ibrahim Mohamed Ismail, and **Ahmed Hamza H. Ali**, (2026). Development and Innovations in Hybrid Steam Injection for Enhancing Heavy Oil Recovery: Cutting-edge on Nanotechnology, Additives, and In-Situ Upgrading (submitted to Journal of Petroleum Science and Engineering)

(6) Taha Abdelnaeem M. Ali, Mohammed B. Effat, M. M. Abdelghany, and **Ahmed Hamza H. Ali** (2026). Investigating the Performance-Cost of Different System Configurations for Green Hydrogen Production Utilizing Dual Solar Energy Conversion Forms to Power the Electrolyzer, International Journal of Hydrogen Energy, (Accepted for Publication)

(7) **Ahmed Hamza H. Ali**, and Jillan Ahmed Hamza H. Ali (2026). Solar Driven Refrigeration Systems in Food Supply Cold Chain: The state-of-the-art, challenges, and environmental impact. Sustainability 2026, Volume 18, Issue 5, 2442, https://doi.org/10.3390/su18052442

(8) Mohamed A. Aziz, Ahmed M. Elsayed, Osama A. Gaheen, **Ahmed Hamza H. Ali**, Ahmed Farag, and Mohamed B. Farghaly (2026). Performance Analysis of Small-Scale HAWTs with Stepped Airfoil Modifications, International Journal of Aeronautical and Space Sciences, Published February 27 2026, https://doi.org/10.1007/s42405-025-01118-y

(9) Taha Abdelnaeem M. Ali, Mohammed B. Effat, M. M. Abdelghany, and Ahmed **Hamza H. Ali** (2026). Performance and Analysis of Variance for Alkaline Water Electrolyzer PV-Powered System for Green Hydrogen Production. J. Eng. Appl. Sci. 73, 54 (2026) https://doi.org/10.1186/s44147-026-00906-x

Year 2025

(10) **Ahmed Hamza H. Ali** (2025), Toward a Single Interactive and Integrative Planning and Resource Allocation Platform for Food-Energy-Water Nexus. In Antonella Angelini, Luigi di Bitonto, and Carlo Pastore (Editors), Security Enhancement for Climate Change Impacting Urban Resources – SECCURe, NATO Science for Peace and Security Series C: Environmental Security. https://doi.org/10.1007/978-94-024-2345-7

(11) **Ahmed Hamza H. Ali** and Liga Baltina (2025), Addressing Skills Gaps and Mismatches in the Emerging Energy Sector Transition: A Prospectus for the Common Future Skill Trends in Tunisia, Albania, and Egypt. In book: From skills anticipation to skills action: Collection of articles to understand skills demand in EU neighbouring countries, edited by Ummuhan Bardak, Terence Hogarth, Chiara Fratalia, and Ed Thorpe. Publisher: European Training Foundation. https://doi.org/10.2816/3566823

Year 2024

(12) Dinesh Kumar Sharma, Dilip Sharma, and **Ahmed Hamza H. Ali**, (2024) Experimental Study on Performance of a Solar Thermal-Driven Vapor Absorption System Integrated with Hot Thermal Energy Storage for Milk Chilling, ASME *J. Sol. Energy Eng. Jun 2024, 146(3): 031011 (11 pages),* Paper No: SOL-23-1157 https://doi.org/10.1115/1.4064113

(13) Ahmed Abdelfattah Abdelwahed Morsi, Mohamed Fekry Farah El-Dosoky, Othman Hassan Othman, Mohamed Mahmoud Sayed Ahmed, and **Ahmed Hamza H. Ali**, (2024) Numerical Investigation on the Effect of the Azimuthal Deviation on Performance of Equal Speed Co-Rotating Double Rotor Small-Scale Horizontal-Axis Wind Turbine. JES. Journal of Engineering Sciences, Volume 52, Issue 1, January and February 2024, Page 16-35, https://dx.doi.org/10.21608/jesaun.2023.239362.1267

(14) A. Ashraf Zein Al Abdeen, Mahmoud Nady AdelMoez, **Ahmed Hamza H. Ali**, (2024). Thermoelectric Cooler with Different Fins Configuration. Assiut University Bulletin for Environmental Research Vol. 27 No.1 March 2024 pp. 26-39. https://doi.org/10.21608/AUBER.2024.286324.1076

(15) Mohamed Hassan Soliman Mohamed, **Ahmed Hamza H. Ali**, Ibrahim Mohamed Ismail (2024). Thermal Management Systems for Li-Ion Batteries Used in Electric Vehicles. Assiut University Bulletin for Environmental Research Vol. 27 No. 1 March 2024 pp. 51-99. https://doi.org/10.21608/auber.2024.288607.1085

(16) Mohamed Hassan Soliman Mohamed, **Ahmed Hamza H. Ali**, Ibrahim Mohamed Ismail (2024). Performance of a Novel Thermal Management System of Li-Ion Batteries Used in Electric Vehicles. Assiut University Bulletin for Environmental Research Vol. 27 No. 1 March 2024 pp. 100-112. https://doi.org/10.21608/AUBER.2024.288577.1084

(17) Ibrahim Hassan M. Sadeek, Osman Omran Osman, Mahmoud Nady Abdelmoez, and **Ahmed Hamza H. Ali** (2024). Energy Efficiency and Environmental Impact Assessment of Steam Power Plant Boiler. Assiut University Bulletin for Environmental Research Vol. 27 No. 1 March 2024 pp. 150-162. https://doi.org/10.21608/AUBER.2024.290268.1086

(18) M. Amir Abd Elhamid, Ibrahim M. Ismail, and **Ahmed Hamza H. Ali** (2024). Performance and Environmental Impact Assessment of Industrial Ventilation Systems for Internal Contamination Sources. Assiut University Bulletin for Environmental Research Vol. 27 No. 1 March 2024 pp. 163-176. https://doi.org/10.21608/AUBER.2024.286071.1087

(19) Ahmed A. Hussien, Ahmed Hamza H. Ali, Ibrahim M. Ismail (2024). Comparative Investigation of the Energy Efficiency of Mini-Split Air Conditioning with Variable Refrigerant Flow Systems for Office Buildings in a Hot Climate. JES. Journal of Engineering Sciences, Volume 52, Issue 2, March 2024, Page 52-72. https://doi.org/10.21608/JESAUN.2024.243091.1273

Year 2023

(20) Dinesh Kumar Sharma, Dilip Sharma, and **Ahmed Hamza H. Ali** (2023). Optimization and thermo-economic performance of a solar-powered vapor absorption cooling system integrated with sensible thermal energy storage. Energy Conversion and Management: X, Vol. 20, October 2023, 100440. https://doi.org/10.1016/j.ecmx.2023.100440

(21) Dinesh Kumar Sharma, Dilip Sharma, and **Ahmed Hamza H. Ali** (2023). Multi-Attribute Decision-Making Tools for Selection of PCMs as Latent Heat Thermal Energy Storage Integrated With Solar-Driven LiBr-H2O Vapor Absorption System. Int. Journal of Ambient Energy, Vol. 44-1, March 2023, 1767-1775 https://doi.org/10.1080/01430750.2023.2188257

Year 2022

(22) Dinesh Kumar Sharma, Dilip Sharma, and **Ahmed Hamza H. Ali** (2022). Energy, Exergy, Environmental Impact, and Economic (4E) Analysis of ET-CPC-Powered Solar Domestic Water Heating System. Environmental Science and Pollution Research, Vol. 29, June 2022, 82390–82410, https://doi.org/10.1007/s11356-022-21505-2

(23) Dinesh Kumar Sharma, Dilip Sharma, and **Ahmed Hamza H. Ali** (2022). Exergy Destruction Analysis of Evacuated Tube Compound Parabolic Concentrator, Applied Solar Energy, Vol. 57, No. 5, pp. 420–429, March 2022. https://doi.org/10.3103/S0003701X2105011X

Year 2021

(24) Dinesh Kumar Sharma, Dilip Sharma, and **Ahmed Hamza H. Ali** (2021). Selection of phase change material for thermal energy storage integrated with a solar-powered vapour absorption system. Int. J. Environment and Sustainable Development, Vol. 20, Nos. 3/4, July 2021, pp 297-300, https://doi.org/10.1504/IJESD.2021.116863

Year 2020

(25) Dinesh Kumar Sharma, Dilip Sharma, and **Ahmed Hamza H. Ali** (2020). State-of-the-art on solar-powered vapor absorption cooling systems integrated with thermal energy storage. Environmental Science and Pollution Research, (2020) Vol. 27:158–189 https://doi.org/10.1007/s11356-019-06941-x

Year 2019

(26) Ahmed M. Reda, **Ahmed Hamza H. Ali**, Mahmoud G. Morsy, and Ibrahim S Taha (2019). Optimization and performance of a small-scale adsorption cooling system fully powered by solar energy for hot arid areas, SN Applied Sciences, 1: 1096, (September 2019) https://doi.org/10.1007/s42452-019-1150-8,

Year 2018

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Last updated on February 27, 2026