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, drahmedhamzaali@gmail.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 – Present) • **Vice President for Training and Society Affairs, New Cairo Technological University, New Cairo, Cairo, Egypt (February 16, 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 to present) • **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–January 2015) • **Chairperson of Energy Resources Engineering Department**, Egypt-Japan University of Science and Technology (E-JUST), Egypt (February 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 – 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-present) • Certified Consultant and Professional Engineer of New and Renewable Energy Engineering and Energy Efficiency, Egypt Engineers Syndicate (License no. 1373/3 Egypt 2012-present) • Certified Consultant and Professional Engineer of Refrigeration and Air-Conditioning, Egypt Engineers Syndicate (License no. 1373/3 Egypt 2019-present) • 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, in partnership with Oriental Consultants Co., Ltd., Tokyo, from the site survey through to the finalization of the tender documents. This encompassed plant design, acquiring a local license, and other 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: 1200 kW 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 Neighborhood 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 served as the technical team leader, gathering the required data and preparing Egypt's state-of-the-art report on energy resources and needs. The solar energy sector then proposed long-term recommended policies for utilizing 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 Months	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.	This report is intended to inform the project manager in Austria about the main project activities, which should cover tasks aligned with the current state of the art in ground-source 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 years of 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 climates.

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 Consultants, 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 to 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 the Scientific Council, The Egyptian Center for the Advancement of Science, Technology, and Innovation (ECASTI), Egypt, June 2014 to present

	• Member of the World Society of Sustainable Energy Technologies, UK, August 2013 to present. • Egyptian Engineering Energy Consultancy, from 2012 to the present. • International Solar Energy Society (ISES), from 1994 to the present. • Engineering Consultations and Studies Centre, Faculty of Engineering, Assiut University, Egypt, from 1999 to the present. • The Egyptian Engineering Syndicate from 1986 to the present. • 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, Honors 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 Electronic 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	Completed
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 Agricultural 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) PI-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, **Funded by the 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 Underground 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 decentralized 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 Neighborhood 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 exiting 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 a 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 the 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**, Mohamed Hassan Soliman Mohamed, and Ibrahim M. Ismail (2026). Investigation of the Effects of Design and Operating Parameters on the Thermal Management System Performance of a Lithium-Ion Battery Pack for Sustainable Energy Storage. (Submitted to Sustainability MDPI)

(2) **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. ENB-D-26-07320 (Submitted to Energy and Buildings)

(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. UNCRES-D-25-00404 (submitted to Unconventional Resources)

(5) 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. Environmental Progress & Sustainable Energy, Octoer 2026; e70766. Pages 1-20. https://doi:10.1002/ep.70766

(6) **Ahmed Hamza H. Ali** and Jillan Ahmed Hamza H. Ali (2026). Transient Behavior of Thermally Developing Laminar Flow within Offset Plates Confined in a Channel Heated by Radiation for Integrated Photovoltaic Solar Thermal Collector Applications. Journal of Engineering and Applied Science, August 2026, Volume 73, article number 339 (2026), https://doi.org/10.1186/s44147-026-01187-0

(7) Muhamad Jasim AL-Helail, Ibrahim Mohamed Ismail, and **Ahmed Hamza H. Ali** (2026). "Hybrid Steam–Nanoparticle Injection for Heavy Oil Recovery: A Critical Review of Mechanisms, Additives, and In Situ Upgrading Pathways," *Egyptian Journal of Petroleum*, Vol. 35, Iss. 4, Article 2. https://doi.org/10.62593/2090-2468.1127

(8) 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, Volume 223, 2026, 154348 https://doi.org/10.1016/j.ijhydene.2026.154348

(9) **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

(10) 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

(11) 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 Systems for Green Hydrogen Production. Journal of Engineering and Applied Science 73, 54 (2026) https://doi.org/10.1186/s44147-026-00906-x

Year 2025

(12) **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

(13) **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

(14) 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

(15) 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

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

(17) 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

(18) 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

(19) 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

(20) 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

(21) 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, Pages 52- 72. https://doi.org/10.21608/JESAUN.2024.243091.1273

Year 2023

(22) 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

(23) 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

(24) 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

(25) 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

(26) 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

(27) 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

(28) 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

(29) **Ahmed Hamza H. Ali,** Experimental Study on Performance of Solar Thermal Driven Cooling System Versus a Hybrid Mechanical Compression Refrigeration-Solar Thermal Assisted System in Hot Areas. Research-2-Practice Forum on Renewable Energy, Water, and Climate Security in Africa, 16-18 April 2018, Tlemcen, Algeria, https://dx.doi.org/10.2139/ssrn.3211253

Year 2017

(30) **Ahmed Hamza H. Ali**, Design Optimization of Staggered Plates' Channel Heated by Radiation Heat Flux based on the Convective Heat Transfer and Fluid Flow for Hybrid Photovoltaic/Thermal System, Sustainable Energy Technologies and Assessments, Vol. 24, PP. 55-70 (December 2017) https://doi.org/10.1016/j.seta.2017.01.009

(31) **Ahmed Hamza H. Ali**, Performance-cost and global warming assessments of two residential-scale solar cooling systems versus a conventional one in hot arid areas. Sustainable Energy Technologies and Assessments, Vol. 20, PP. 1-8 (April 2017) https://dx.doi.org/10.1016/j.seta.2017.01.006,

(32) **Ahmed Hamza H. Ali**, Heba AbdelRasheed S. Zeid, and Hassan M.G. AlFadhli. Energy Performance, Environmental Impact, and Cost Assessments of a Photovoltaic Plant under Kuwait Climate Condition, Sustainable Energy Technologies and Assessments, Vol. 22, pp 25–33 (August 2017) https://doi.org/10.1016/j.seta.2017.05.008,

(33) **Ahmed Hamza H. Ali and** Ali Nasser Alzaed. Residential-scale solar-driven cooling systems versus conventional air-conditioning in hot arid areas: A comparative study. Materials Physics and Mechanics, Vol. 32, pp 21-30 (2017) https://doi.org/10.18720/MPM.3212017_4

(34) **Ahmed Hamza H. Ali** and Mohamed Noureldin Ibrahim, Performance and Environmental Impact of a Turbojet Engine Fuelled by Blends of Biodiesels. International Journal of Environmental Science and Technology. Vol. 14, Issue 6, pp 1253–1266 (June 2017) https://doi.org/10.1007/s13762-016-1228-4,

(35) **Ahmed Hamza H. Ali**, Performance Assessment and Gained Operational Experiences of a Residential Scale Solar Thermal Driven Adsorption Cooling System Installed in a Hot Arid Area. Energy and Buildings, Vol. 138, pp 271–279 (March 2017) https://doi.org/10.1016/j.enbuild.2016.12.062

(36) Ahmed M. Reda, **Ahmed Hamza H. Ali**, Mahmoud G. Morsy, and Ibrahim S Taha, Performance of a Small-Scale Solar-Powered Adsorption Cooling System. International Journal of Green Energy, Vol. 14, Issue 1, pp 75–85, (January 2017). https://doi.org/10.1080/15435075.2016.1234380,

Year 2016

(37) Ahmed M. Reda, **Ahmed Hamza H. Ali**, Mahmoud G. Morsy, and Ibrahim S Taha, Design Optimization of a Residential-Scale Solar-Driven Adsorption Cooling System in Upper Egypt Based. Energy and Buildings: Vol. 130, 843 -856 (September 2016) https://doi.org/10.1016/j.enbuild.2016.09.011

(38) Ahmed A. Saleem, Ali K. Abel-Rahman, **Ahmed Hamza H. Ali,** and S. Ookawara, An Analysis of Thermal Comfort and Energy Consumption within Public Primary Schools in

Egypt. The IAFOR Journal of Sustainability, Energy & the Environment, Volume 3 –Issue 1, pp. 47- 61– April 2016

(39) A. Elnozahy, Ali K. Abdel Rahman, **Ahmed Hamza H. Ali**, Mazen Abdel-Salam, and S. Ookawara. Thermal/Electrical Modelling of a PV Module as Enhanced by Surface Cooling. Journal of Clean Energy Technologies Vol. 4, No. 1, pp. 1-7 (January 2016), http://www.jocet.org/vol4/245-H0007.pdf

(40) Mostafa M. S. Ahmed, Ali K. Abel-Rahman, **Ahmed Hamza H. Ali**, and M. Suzuki. Double Skin Façade: The State of the Art on Building Energy Efficiency. Journal of Clean Energy Technologies Vol. 4, No. 1, pp. 84-89 (January 2016)

Year 2015

(41) Ahmed N. Shmroukh, **Ahmed Hamza H. Ali,** and Shinichi Ookawara. Adsorption Working Pairs for Adsorption Cooling Chillers: A Review Based on Adsorption Capacity and Environmental Impact. Renewable & Sustainable Energy Reviews, Vol. 50, pp. 445-456 (Oct. 2015)

(42) Asmaa Ahmed M. El-Bahloul, **Ahmed Hamza H. Ali,** and Shinichi Ookawara. Performance and Sizing of Solar-Driven DC Motor Vapour Compression Refrigerator with Thermal Storage in Hot Arid Remote Areas. Energy Procedia, Vol. 70, 634- 643 (May 2015), https://doi.org/10.1016/j.egypro.2015.02.171

(43) Mostafa M.S. Ahmed, Ali K. Abel-Rahman, and **Ahmed Hamza H. Ali**. Development of Intelligent Façade Based on Outdoor Environment and Indoor Thermal Comfort. Procedia Technology, Volume 19, pp 742–749 (April 2015)

(44) Ahmed Elnozahy, Ali K. Abdel Rahman, **Ahmed Hamza H. Ali**, Mazen Abdel-Salam, and S. Ookawara. "Performance of a PV module integrated with a standalone building in hot, arid areas as enhanced by surface cooling and cleaning" Energy and Buildings, Vol. 88, pp. 100–109 (February 2015), https://doi.org/10.1016/j.enbuild.2014.12.012

(45) **Ahmed Hamza H. Ali**, Ahmed. M. Serag Eldin and S. M. Abdel-Gaied. Effect of Dust and Ambient Temperature on PV Panels Performance in Egypt. Jordan Journal of Physics, An International Peer-Reviewed Research Journal. Special Issue, Vol. 8, No. 1, pp. 31-42 (July 2015), https://journals.yu.edu.jo/jjp/JJPIssues/Vol8No2pdf2015/6.pdf

(46) Ahmed N. Shmroukh, **Ahmed Hamza H. Ali**, Ali K. Abel-Rahman, and S. Ookwara. Experimental Investigation on Adsorption Capacity of a Variety of Activated Carbon/Refrigerant Pairs. Int. Journal of Engineering Research and Applications www.ijera.com ISSN: 2248-9622, Vol. 5, Issue 4, (Part -6) pp.66-76 (April 2015).

(47) Ahmed N. Shmroukh, **Ahmed Hamza H. Ali**, Ali K. Abel-Rahman, S. Ookwara. Investigation of Heat and Mass Transfer in Activated Carbon Granules/R-134a Adsorbent Pair for Compact Adsorption Chiller. Int. Journal of Research in Engineering and Technology. Vol. 4 No. 4, pp. 957-965 (April 2015)

Year 2014

(48) Mahmoud Ahmed, M. S. Youssef, and **Ahmed Hamza H. Ali**. The onset of liquid entrainment from a stratified two-phase region through small branches. Acta Mechanica, Vol. 225, Issue 11, pp 3023-3039 (November 2014)

(49) M. M. Mourad, **Ahmed Hamza H. Ali**, Ali Kamel Abdel-Rahman, Nady M. Abdel Kariem. An Energy Efficient-Smart Home for New Cities in Egypt. WIT Transactions on Ecology on the Built Environment, Vol. 142, September (2014) pp. 115-126 (doi:10.2495/ARC140111)

(50) Ali MEHREZ, Shinichi OOKAWARA, **Ahmed Hamza H. Ali**, Masaaki SUZUKI. A Numerical Study on the Cooling-Solidification Process of Urea Particles in Prilling Tower. Journal of Chemical Engineering of Japan, Vol. 47, No. 8, pp. 628–634 (August 2014)

(51) Peter Schwerdt and **Ahmed Hamza H. Ali**, German/Egyptian Demonstration Project on Solar Cooling in a Hot Arid Climate. Energy Procedia, Vol. 48, 991 – 996 (April 2014), https://doi.org/10.1016/j.egypro.2014.02.113

Year 2013

(52) **Ahmed Hamza H. Ali**, Mahmoud Ahmed, and S. M. Abdel-Gaied. Investigation of Heat Transfer and Fluid Flow in Transitional Regime inside a Channel with Staggered Plates Heated by Radiation for PV/T System. Energy, An International Journal; Vol. 59, No.15, pp 255–264 (September 2013)

(53) **Ahmed Hamza H. Ali**. Desiccant Enhanced Nocturnal Radiative Cooling-Solar Collector System for Air Comfort Application in Hot Arid Areas, Sustainable Energy Technologies and Assessments Vol. 1, pp. 54–62 (March 2013), https://doi.org/10.1016/j.seta.2013.01.003

(54) Ahmed N. Shmroukh, **Ahmed Hamza H. Ali,** and Ali K. Abel-Rahman. Experimental Study on Adsorption Capacity of Activated Carbon Pairs with Different Refrigerants. International Journal of Chemical, Nuclear, Metallurgical, and Materials Engineering Vol: 7 No: 11, pp 466-472 (November 2013)

(55) Ahmed N. Shmroukh, **Ahmed Hamza H. Ali,** and Ali K. Abel-Rahman. Adsorption refrigeration working pairs: The state-of-the-art in the application. International Journal of Chemical, Nuclear, Metallurgical, and Materials Engineering Vol: 7 No: 11, pp 453-465 (November 2013)

(56) Ahmed A. Askalany, M. Salem, I.M. Ismail, **A.H.H. Ali**, M.G. Morsy, and Bidyut B. Saha. An overview on adsorption pairs for cooling, Renewable and Sustainable Energy Reviews. Vol 19, No. pp. 565–572 (March 2013)

Year 2012

(57) Ahmed A. Askalany, M. Salem, I.M. Ismail, **Ahmed Hamza H. Ali,** and M.G. Morsy. Experimental study on adsorption-desorption characteristics of Granular Activated Carbon/R134a pair. Int. J. of Refrigeration, Vol. 35, Issue 3, pp 494-498 (May 2012)

(58) Ali Mehrez, **Ahmed Hamza H. Ali**, W. K. Zahra, S. Ookawara, M. Suzuki. Study on Heat and Mass Transfer during Urea Prilling Process. Int. J of Chemical Engineering and Applications, Vol. 3, No.5, pp.347-353 (October 2012)

(59) Ahmed A. Askalany, Bidyut B. Saha, Keishi Kariya, Ibrahim M. Ismail, Mahmoud Salem, **Ahmed Hamza H. Ali,** and Mahmoud G. Morsy. Hybrid adsorption cooling systems: An overview, Renewable and Sustainable Energy Reviews, Vol. 16, No.8, pp 5787–5801 (October 2012)

(60) Ahmed A. Askalany, M. Salem, I.M. Ismail, **Ahmed Hamza H. Ali,** and M.G. Morsy. A review on adsorption cooling systems with adsorbent carbon. Renewable and Sustainable Energy Reviews, Vol. 16, No.1, pp 493-500 (January 2012)

Year 2011

(61) Mahmoud Ahmed, M. M. Abou-Al-Sood, and **Ahmed Hamza H. Ali**. A One-Dimensional Model of Viscous Liquid Jets Breakup. ASME Journal of Fluid Engineering, Vol. 133(11), 114501 (13th October 2011) (7 pages)

(62) Morteza Eslamian, Mahmoud Ahmed, and **Ahmed Hamza H. Ali**. A Theoretical Model for the Formation of Functional Micro- and Nanoparticles from Combustion of Emulsion Droplets, Drying Technology, 29:9, 1025-1036 (June 2011)

(63) **Ahmed Hamza H. Ali**, Y. Matsushita, and S. Ookawara, Photovoltaic Module Thermal Regulation: Effect of the Cells Arrangement Configurations on the Performance. Int. J. of Thermal & Environmental Engineering, Vol 2 No. 1, pp. 41-47 (March 2011).

Year 2010

(64) **Ahmed Hamza H. Ali**. Performance of an Absorber with Hydrophobic Membrane Contactor at Aqueous Solution-Water Vapor Interface. ASME Journal of Thermal Science and Engineering Applications, Vol. 2 No.3, pp. 031007-1-031007-19, (September 2010).

(65) **Ahmed Hamza H. Ali**, Mahmoud Ahmed, and M. S. Youssef. Characteristics of Heat Transfer and Fluid Flow in a Channel with a Single-Row Plate Array Oblique to Flow Direction for Photovoltaic/Thermal Systems. Energy, Vol 35, No.9, pp. 3524-3534 (September 2010)

(66) **Ahmed Hamza H. Ali** and Mahmoud Gaber Morsy, Energy Efficiency and Indoor Thermal Perception: A Comparative Study between Radiant Panel and Portable Convective Heaters. Energy Efficiency, Volume 3, Issue 4, pp. 283-301 (October 2010).

(67) **Ahmed Hamza H. Ali** and Schwerdt, P. For designing a compact absorber with membrane contactor at the liquid-vapor interface: Influence of membrane properties on water vapour transfer. ASHRAE Transactions 2010, Vol. 116, Part 1, pp. 398-407 (July 2010).

(68) **Ahmed Hamza H. Ali**, Design of a Compact Absorber with a Hydrophobic Membrane Contactor at the Liquid Vapor Interface for Lithium Bromide-Water Absorption Chillers. Applied Energy, Vol. 87, Issue 4, pp. 1112-1121, (April 2010).

(69) **Ahmed Hamza H. Ali**. Performance and Operational Experiences of Solar Driven Cooling Plant after Five Years in Operation. Int. J. of Thermal & Environmental Engineering, Vol. 1, No. 1, 23-28, (September 2010)

Year 2009

(70) **Ahmed Hamza H. Ali** and Schwerdt, P. Characteristics of the membrane utilized in a compact absorber for lithium bromide-water absorption cooling chillers. Int. J. of Refrigeration, Vol. 32, No. 8, pp. 1886-1896 (December 2009).

(71) **Ahmed Hamza H. Ali**, Delineation of frost characteristics on cold walls by using a new formula for psychrometrics demarcation boundary. Energy Conversion and Management, Vol. 50, Issue 6, pp. 1570-1577, June (2009).

(72) Pollerberg, C., **Ahmed Hamza H. Ali,** and Dötsch, C. Solar Driven Steam Jet Ejector Chiller. Applied Thermal Engineering, Vol. 29, Issues 5-6, pp. 1245-1252, (April 2009), https://doi.org/10.1016/j.applthermaleng.2008.06.017

Year 2008

(73) **Ahmed Hamza H. Ali**, Peter Noeres, and Clemens Pollerberg. Performance Assessment of an Integrated Free Cooling and Solar Powered Single-Effect Lithium Bromide-Water Absorption Chiller. Solar Energy Vol. 82, No.11, pp. 1021–1030 (November 2008), https://doi.org/10.1016/j.solener.2008.04.011

(74) Pollerberg, C., **Ahmed Hamza H. Ali,** and Dötsch, C. Experimental Study on the Performance of a Solar Driven Steam Jet Ejector Chiller. Energy Conversion and Management. Vol. 49, No.11, pp. 3318–3325 (November 2008), https://doi.org/10.1016/j.enconman.2008.03.029

(75) **Ahmed Hamza H. Ali** and Ibrahim M. Ismail. Evaporator Air-Side Fouling: Effect on Performance of Room Air Conditioners and Impact on Indoor Air Quality. Int. J. of HVAC&R Research, ASHRAE, Vol 14, No.2, 209-219 (March 2008).

(76) **Ahmed Hamza H. Ali**. Delineation of Frost Characteristics on Cold Walls by Using a New Formula for Psychrometrics Demarcation Boundary. Jordan Journal of Mechanical and Industrial Engineering, JJMIE, An International J., Vol. 2, No. 4, pp 201–208, (December 2008).

Year 2007

(77) **Ahmed Hamza H. Ali**. Passive cooling of water at night in uninsulated open tank in hot, arid areas. Energy Conversion and Management, Vol. 48, No.1, pp. 93–100, (2007), https://doi.org/10.1016/j.enconman.2006.05.012

(78) **Ahmed Hamza H. Ali** and Ibrahim M. Ismail. Effects of Condensate and Initial Formation of Thin Frost Layer on Evaporator Coil Performance of Room Air-Conditioner. Jordan Journal of Mechanical and Industrial Engineering, JJMIE, An International J., Vol. 1, No. 2, pp 69 –77 (December 2007).

Year 2005

(79) **Ahmed Hamza H. Ali**. Characteristics of Flow and Heat Transfer for In-Line Plate Segments Inside Channel Used for Photovoltaic Modules Thermal Regulation. Applied Thermal Engineering, Vol. 25, Issue 8-9, pp. 1381-1401, (April 2005), https://doi.org/10.1016/j.applthermaleng.2004.06.004

Year 2004

(80) **Ahmed Hamza H. Ali** and Ibrahim M. S. Taha. Effects of Configuration Parameters on Heat Transfer and Flow Characteristics in Transitional Regime Inside Channel with Staggered Plate Segments Heated by Radiation. J. of Engineering Sciences, Assiut University, Vol 32, No.2, pp. 725-750 (April 2004).

Year 2003

(81) **Ahmed Hamza H. Ali**. Effect of Quarter-Circle-Shaped Supply Inlet on the Room Air Flow Patterns, Temperature Profiles, and Convective Heat Transfer Coefficient. J. of Engineering Sciences, Assiut University, Vol 31, No.2, pp. 345-363 (April 2003).

Year 2002

(82) **Ahmed Hamza H. Ali** and Y. Hanaoka. Experimental Study on Laminar Flow Forced-Convection in a Channel with Upper V-Corrugated Plate Heated by Radiation. Int. J. of Heat and Mass Transfer, Vol. 45, No. 10, pp. 2107-2117 (October 2002).

(83) **Ahmed Hamza H. Ali**. Effect of Design and Operating Parameters on the Convection Heat Transfer and Fluid Flow in Wavy Channel with Upper Wall Heated by Radiation. J. of Engineering Sciences, Assiut University, Vol 30, No.2, pp. 455–476 (April 2002).

Year 2001

(84) **Ahmed Hamza H. Ali** and Y. Hanaoka. Characteristics of Forced-Convection Heat Transfer for Air Flowing in Transitional Regime Through Channel with Offset Plates Heated by Radiation. Bulletin of the Faculty of Engineering, Assiut University, Vol. 29, No.2, pp. 103-114 (May 2001).

Year 2000

(85) **Ahmed Hamza H. Ali**. Numerical Study on Design Parameters of a Channel with Offset Plates Heated by Radiation, Based on Maximum Forced Convection Heat Transfer Coefficient and Minimum Friction Factor. NAFEMS Int. J. of CFD Case Studies, Vol. 2, pp. 69-101, (2000).

Year 1998

(86) **Ahmed Hamza H. Ali**, K. Kishinami, Y. Hanaoka, and J. Suzuki, "Numerical Study on Laminar Flow Forced-Convection Heat Transfer for Air in Channel with Offset Plates Heated by Radiation Heat Flux" Int. J. of Numerical Methods for Heat & Fluid Flow, Vol. 8, No. 5, pp. 539-558 (1998).

(87) K. Kishinami, H. Saito, J. Suzuki, **Ahmed Hamza H. Ali**, H. Umieki, and N. Kitano, "A Fundamental Study on Combined Free and Forced Convective Heat Transfer from a Vertical Plate Followed by a Backward Step," Int. J. of Numerical Methods for Heat & Fluid Flow, Vol. 8, No. 6, pp. 717-736, (1998).

(88) **Ahmed Hamza H. Ali**, K. Kishinami, Y. Hanaoka, and J. Suzuki, "Experimental Study of Laminar Flow Forced-Convection Heat Transfer in Air Flowing through Offset Plates Heated by Radiation Heat Flux" Int. J. Communications in Heat and Mass Transfer, Vol. 25, No. 3, pp. 297-308, (1998).

(89) **Ahmed Hamza H. Ali**, I.M.S. Taha, and I.M. Ismail, "Effect of Aging, Thickness, and Colour on Both the Radiative Properties of Polyethylene Films and Performance of the Nocturnal Cooling Unit," Energy Conversion and Management, Vol. 39, No. 1/2, pp. 87-93, (1998), https://doi.org/10.1016/S0196-8904(96)00174-4

Year 1997

(90) **Ahmed Hamza H. Ali**, K. Kishinami, I.M.S. Taha, I.M. Ismail, and J. Suzuki, "Comparison Between Nocturnal Cooling of Water in a Closed Loop Forced Circulation and Open Loop Systems" Journal of Japan Solar Energy Society (JSES), Vol. 23, No. 5, pp. 64-69, (1997), https://cir.nii.ac.jp/crid/1520009408221361152

Year 1995

	(91) **Ahmed Hamza H. Ali**, I.M.S. Taha, and I.M. Ismail. Cooling of Water Flowing Through a Night Sky Radiator" Solar Energy, Vol. 55, No. 4, pp. 235-253, (1995), https://doi.org/10.1016/0038-092X(95)00030-U
Books and Book Chapters	**Books** (92) **Ahmed Hamza H. Ali** and Mohamed Noureldin Ibrahim, Performance Assessment of Turbojet Engine Operated With Biodiesel: Experimental Study of Small-scale Turbojet Engine. ISBN: 978-3-330-85683-7. Noor Publishing, Saarbrücken, Germany, March 2017. (93) **Ahmed Hamza H. Ali** and Mostafa Mohamed Sayed Ahmed Hassan, Kinetic Shading System in Residential Buildings: Effects on Indoor Thermal Comfort and Building Energy Consumption within Egypt. ISBN: 978-3-330-80421-0. Noor Publishing, Saarbrücken, Germany, November 2016. (94) **Ahmed Hamza H. Ali** and Ahmed Abdeen Abdel-Rady Saleem, Thermal Comfort Conditions Within Primary Schools in Hot Arid Areas: Case Study of the Existing Schools Design in Egypt. ISBN: 978-3-330-79780-2. Noor Publishing, Saarbrücken, Germany, September 2016. (95) **Ahmed Hamza H. Ali** and Mahmoud N. Abdel-Moez, Residential Scale Solar Thermal Driven Adsorption Cooling System: Optimization of the thermal energy storage system. ISBN: 978-3-330-79667-6. Noor Publishing, Saarbrücken, Germany, September 2016. (96) **Ahmed Hamza H. Ali** and Ali Abd El Motaal Mehrez, Heat and Mass Transfer in Urea Prilling Process, ISBN: 978-3-659-34506-7. LAP LAMBERT Academic Publishing, Germany, February 2013. **Book Chapters** (97) M. M. Mourad, **A. H. H. Ali**, S. Ookawara, A. K. Abdel-Rahman, and N. M. Abdelkariem. An energy-efficient smart home for new cities in Egypt. In C.A. Brebbia and R. Pulselli, Editors of the Book "Eco-Architecture V", 648 pp. Pub. Date, 2014, ISBN: 978-1-84564-822-0, WIT Press, UK, pp. 115-126. (98) **Ahmed Hamza H. Ali**. Solar Cooling Systems: Experiences and Lessons Learned with Two Different Systems. In Amimul Ahsan, Editor of the Book Evaporation, Condensation, and Heat Transfer, Pub. Date: (2011), ISBN 978-953-307-583-9, INTECH Publishers Inc. (99) **Ahmed Hamza H. Ali**. Photovoltaic Module Thermal Regulation: Effect of the Cells Arrangement Configurations on the Performance. In Amimul Ahsan, Editor of the Book Evaporation, Condensation, and Heat Transfer, Pub. Date: (2011), ISBN 978-953-307-583-9, INTECH Publishers Inc. (100) **Ahmed Hamza H. Ali** and Mahmoud Gaber Morsy. Thermal Perception and Energy Consumption: A Comparative Study between Radiant Panel and Portable Convective Heaters. In the Book "Energy and Buildings: Efficiency, Air Quality, and Conservation," Joseph B. Utrick, Editor, 451 pp. Pub. Date: 1st Quarter (2011) ISBN: 978-1-60741-049-2, Nova Science Publishers Inc. pp. 381-408.
Peer-reviewed conference contributions (the findings presented may not have been reported in other publications).	**Year 2026** (101) Dinesh Kumar Sharma, Abha Jain, Dilip Sharma, and **Ahmed Hamza H. Ali**, (2026). Machine Learning–Based Performance Prediction of an ET-CPC Driven Solar Vapor Absorption Chiller for Milk Cooling, 5th International Conference on New and Renewable Energy Resources, for Sustainable Future (ICONRER 2026), March 13–14, 2026, Jaipur, India. **Year 2025** (102) **Ahmed Hamza H. Ali**, Mahmoud N. Abdel-Moez, and Jillan Ahmed Hamza H. Ali (2025). Performance and Optimization of a Thermal Energy Storage System Integrated into a Solar-Thermal Driven Cooling System. The Humboldt Kolleg "Sustainable Science Development: Transforming Industries and Society," Jadara University, Irbid- Days Inn Hotel in Amman, Jordan, September 17 – 19, 2025 (103) Jillan Ahmed Hamza H. Ali, Nahla N. Makhlouf, Mohamed Moeman Gamal Eldin Afify, and **Ahmed Hamza H. Ali** (2025). Enhancing Indoor Thermal Comfort in Residential

Buildings Using a Passive Groundwater Earth-to-Air Heat Exchanger. The Humboldt Kolleg "Sustainable Science Development: Transforming Industries and Society," Jadara University, Irbid- Days Inn Hotel in Amman, Jordan, September 17 – 19, 2025

(104) **Ahmed Hamza H. Ali** (2025), An Overview of the Egypt Energy Efficiency Strategy within the Egypt-Integrated Sustainable Energy Strategy 2040.International Workshop on Energy Efficiency, Conservation and Transition for Achieving Net Zero and Sustainable Development Goals, 9-10 September 2025, Thiruvananthapuram, Kerala, India

Year 2024

(105) **Ahmed Hamza H. Ali (2024),** Towards an Interactive and Integrative Planning and Resource Allocation Platform for Food-Energy-Water Nexus. The Advanced Research Workshop (ARW) in the Environmental Security Focus Area, named "Security Enhancement for Climate Change impacting Urban Resources "SECCURE"", is supported by the NATO Science for Peace and Security (SPS) Programme. 9th -12th July 2024, "Area della Ricerca di Roma 1, Montelibretti, ROMA, Italy

(106) **Ahmed Hamza H. Ali (2024),** Towards a Strategic Platform for Water- Food-Energy-Ecosystems (WFEE) Nexus to Support Strategic Planning, international conference Chemistry of Nano and Biosystems: From Research to Applications: Organized by the University Dijillali Liabes of Sidi Bel Abbès (UDL-SBA) of Sidi Bel-Abbès, Algeria, May 20th – 22nd, 2024, Algiers, Algeria

(107) Ahmed K. Al-Okbi, Yuri V. Vankov, Shamil G. Ziganshin, **Ahmed Hamza H. Ali** (2024), Investigating the Performance of Solar Thermal Assisted Air Conditioning System Under the Summer Season of Baghdad, Iraq. February 29 2024, Environmental Science and Engineering 6th Int. Youth Conference on Radio Electronics, Electrical and Power Engineering (REEPE), pp. 1-7, doi: 10.1109/REEPE60449.2024.10479838. Moscow, Russian Federation.

Year 2023

(108) **Ahmed Hamza H Ali (2023),** Towards a Strategic Platform for Water-Food-Energy-EcoSystem (WFEE) Nexus to Support Strategic Planning, 4th International Conference on New and Renewable Energy Resources for Sustainable Future, ICONRER-2023, Jaipur, India, during Nov 02-04, 2023

(109) **Ahmed Hamza H Ali (2023),** Sustainable Cooling of Educational Space using an Underground Water-Cooling System, Humboldt Kolleg, The International Conference on "Functional Material Development for New World" FMDNW 2023, Tunisia, October 5 - 7, 2023, Mahdia, Tunisia

(110) **Ahmed Hamza H. Ali (2023),** Sustainable Cooling of Educational Space using an Underground Water-Cooling System. Beacons of Hope in the Quest for the Next Einstein in Africa/ MENA, El Jadida - Morocco, Kingdom of Morocco, June 1-3, 2023.

Year 2021

(111) Dinesh Kumar Sharma, Dilip Sharma, and **Ahmed Hamza H. Ali** (2021), A Mini-Review on the Effect of Cleaning Strategies on Productivity of Various Solar Thermal Collectors, Proceedings of International Conference on Futuristic Technologies, Indian Institute of Technology Delhi, Jan 22-24, 2021, pp. 309- 319.

(112) Dinesh Kumar Sharma, Dilip Sharma, and **Ahmed Hamza H. Ali** (2021), Scope of Cooling Systems powered by Solar Energy in India, Proceedings of 3rd International Conference on New and Renewable Energy Resources for Sustainable Future ICONRER-2021, SKIT, Jaipur, Feb 11-13, 2021, pp. 6- 11.

(113) Dinesh Kumar Sharma, Dilip Sharma, **Ahmed Hamza H Ali,** and Hemant Raj Singh (2021), Outlook on the Indian scenario of Solar thermal cooling: Policies and Challenges. Proc. of 3rd International Conference on New and Renewable Energy Resources for Sustainable Future ICONRER-2021, SKIT, Jaipur, Feb 11-13, 2021

Year 2019

(114) **Ahmed Hamza H. Ali,** Sustainable Energy Systems in Cooling Applications. Humboldt Kolleg, The Fourth International Conference on "Research to Applications & Markets," Hammamet, TUNISIA, October 21-23, 2019

(115) **Ahmed Hamza H. Ali,** Design Optimization and the performance of a small-scale adsorption cooling system fully powered by solar energy for hot arid areas. The Humboldt Kolleg "Atoms for Peace," InterContinental Cairo Citystars, Cairo, Egypt, October 14 -15, 2019

(116) **Ahmed Hamza H. Ali,** Thermal Cooling and Industrial Solar Heating in Egypt: The State of the Art, Humboldt Kolleg "African-German Strategies: A Partnership for Better Health, Education and Development" Alexander von Humboldt Foundation, Cairo; 12-14 April 2019

Year 2018

(117) **Ahmed Hamza H. Ali,** Energy Efficiency and Indoor Thermal Comfort of Three Cooling Technologies Used in a University's Old Educational Building in a Hot and Dry Area. Beacons of Hope in the Quest for the Next Einstein in MENA, Mogador Gueliz Hotel, Marrakech, Kingdom of Morocco, 4-6 April 2018.

(118) **Ahmed Hamza H. Ali,** Experimental Study on Performance of Solar Thermal Driven Cooling System Versus a Hybrid Mechanical Compression Refrigeration-Solar Thermal Assisted System in Hot Areas. Research-2-Practice Forum on Renewable Energy, Water, and Climate Security in Africa, 16-18 April 2018, Tlemcen, Algeria. https://ssrn.com/abstract=3211253.

Year 2017

(119) **Ahmed Hamza H. Ali**, Wind Catcher with Downstream Fog Injection for Thermal Comfort of a School Building in Hot Arid Areas: Assessment of the Hourly Values, Air Flowrate and Outlet Air Psychrometric Properties. 3rd World Congress and Expo on Green Energy, Berlin, Germany, September 28-29, 2017

Year 2016

(120) **Ahmed Hamza H Ali** and Hassan M.G. AlFadhli. Energy Performance, Environmental Impact, and Cost Assessments of one MWp Photovoltaic Market Technologies Plant under Kuwait Climate Conditions. The 6th International Conference on Energy Research and Development, ASHRAE, March 14-16, 2016, Kuwait City, Kuwait.

(121) **Ahmed Hamza H Ali and** Ali Nasser Alzaed. Residential Scale Solar-Driven Cooling Systems Versus Conventional Air Conditioning in Hot Arid Areas: A Comparative Study. Int. Conf. on Renewable Energy: Generation and Applications" ICREGA'16, February 8-10, 2016, Belfort, France

Year 2015

(122) **Ahmad Hamza H. Ali**. Performance Assessment of Residential Scale Solar-Driven Adsorption Cooling System in Hot, Arid Areas, and Gained Operational Experiences. The 14th International Conference on Sustainable Energy Technologies – SET 2015, 25th - 27th August 2015, Nottingham, UK.

(123) **Ahmed Hamza H Ali** and Hassan M.G. AlFadhli. Energy Performance Assessment of Market-Available Photovoltaic Module Technologies Under Kuwait Climate Conditions. The 14th International Conference on Sustainable Energy Technologies – SET 2015, 25th - 27th August 2015, Nottingham, UK.

(124) Ahmed A. Serageldin, Ali K. Abdelrahman, **Ahmed Hamza H. Ali**, Mohamed R.O. Ali, Shinichi Ookawara. Soil Temperature Profile for Some New Cities in Egypt: Experimental Results and Mathematical Model. The 14th International Conference on Sustainable Energy Technologies – SET 2015, 25th - 27th August 2015, Nottingham, UK.

(125) Mahmoud Mourad, **Ahmad Hamza H. Ali**, S. Ookawara, Ali Kamel Abdel-Rahman, Nady M. Abdelkariem. The Impact of Passive Design Factors on House Energy Efficiency for New Cities in Egypt. International Science Index, Environmental and Ecological Engineering, Vol. 2, No.5, pp 1124. (May 2015). ICESSE Tokyo 2015: The 17th

International Conference on Environmental Systems Science and Engineering, May 28-29, 2015, in Tokyo, Japan

(126) Mostafa M.S. Ahmed, Ali K. Abel-Rahman, **Ahmed Hamza H. Ali,** and M. Suzuki, Double Skin Façade: The state of the art on Building Energy Efficiency. Proc. of 2015 4th Int. Conf. on Clean and Green Energy (ICCGE 2015). Amsterdam, Netherlands, February 14-15, 2015.

(127) Ahmed Elnozahy, Ali K. Abdel Rahman, **Ahmed Hamza H. Ali,** and Mazen Abdel-Salam. Thermal / Electrical Modelling of a PV Module as Enhanced by Surface Cooling. Proc. of 2015 4th Int. Conf. on Clean and Green Energy (ICCGE 2015). Amsterdam, Netherlands, February 14-15, 2015.

Year 2014

(128) Ahmed Elnozahy, Ali K. Abdel Rahman, **Ahmed Hamza H. Ali,** and Mazen Abdel-Salam. A Cost Comparison between Fuel Cell, Hybrid, and Conventional Vehicles. Proc. of the 16th Int. Middle-East Power Systems Conference -MEPCON'2014, Cairo, Egypt, December 23 - 25, 2014

(129) A.A. Hossam-Eldin, C.F. Gabra, **Ahmed Hamza H. Ali**, Effect of Ambient Temperature on The Performance of Different Types of PV Cells at Different Locations in Egypt," Proc. of the 16th Int. Middle-East Power Systems Conference -MEPCON'2014, Cairo, Egypt, December 23 - 25, 2014

(130) Nayera Refaat Abd-Allah, **Ahmed Hamza H. Ali**, Ali K. Abel-Rahman, and S. Ookawara, Energy Conservation in Existing Office Building: Case Study Petrojet Company Main Buildings in Cairo, Egypt. World Sustainable Building 2014 (Barcelona, October 28-30, 2014). ID 765

(131) Mostafa M.S. Ahmed, Ali K. Abel-Rahman, and **Ahmed Hamza H. Ali**. Development of Intelligent Façade Based on Outdoor Environment and Indoor Thermal Comfort. Procedia Technology, 8th International Conference on Interdisciplinary in Engineering, INTER-ENG 2014, 9-10 October 2014, Târgu Mureş, Romania (October 2014)

(132) M. M. Mourad, Ahmed **Hamza H. Ali**, Ali Kamel Abdel-Rahman, Nady M. Abdel Kariem. Energy Efficient-Smart Home for New Cities in Egypt, 5th International Conference on Harmonisation between Architecture and Nature, Eco-Architecture 2014, September 24-26, 2014, Siena, Italy

(133) Asmaa Ahmed M. El-Bahloul, **Ahmed Hamza H. Ali,** and Shinichi Ookawara. Investigating the Performance of a Solar-Driven Refrigerator for Postharvest Crops in Hot Arid Remote Areas. Int. Conf. on Solar Energy and Buildings, EuroSun 2014, Aix-Les-Bains, France, 16-19 September 2014, pp. 552-561

(134) Asmaa Ahmed M. El-Bahloul, **Ahmed Hamza H. Ali,** and Shinichi Ookawara. Solar Refrigeration for Postharvest Crops Reservation: The State of the Art of the Systems. Int. Conf. on Solar Energy and Buildings, EuroSun 2014, Aix-Les-Bains, France, 16-19 September 2014, pp.620-629.

(135) Ahmed A. Abdel-Rady, Ali K. Abel-Rahman, **Ahmed Hamza H. Ali,** and S. Ookawara. Experimental Study on Thermal Comfort Conditions in Existing Public Primary School Buildings in Upper Egypt. Sustainability in Energy and Buildings, SEB-14. Cardiff, Wales, UK, 25 - 27 June 2014

(136) M. M. Mourad, **Ahmed Hamza H. Ali**, S. Ookawara, Ali Kamel Abdel-Rahman, Wind Catcher- Earth air tunnel: A Tool for Passive Cooling for a Residential Home in New Cities of Egypt, The Fourth Annual Asian Conference on Sustainability, Energy and the Environment 2014. ACSEE2014, The Rihga Royal Hotel & The Osaka International Convention Center, Osaka, Japan, June 12-15, 2014.

(137) Ahmed A. Abdel-Rady, Ali K. Abel-Rahman, **Ahmed Hamza H. Ali,** and S. Ookawara, An Analysis of Thermal Comfort and Energy Consumption within Public Primary Schools in Egypt. The Fourth Annual Asian Conference on Sustainability, Energy and the Environment 2014. ACSEE2014, The Rihga Royal Hotel & The Osaka International Convention Center, Osaka, Japan, June 12-15, 2014.

(138) C.F. Gabra, A.A. Hossam-Eldin, **Ahmed Hamza H. Ali**, A Comparative Analysis of the Performance of Monocrystalline, Polycrystalline, and Amorphous Thin Film PV Cells in Semi-Arid Climate Conditions: Case of Egypt. Africa Photovoltaic Solar Energy Conference (Africa PVSEC), Durban, South Africa, March 2014.

Year 2013

(139) Peter Schwerdt and **Ahmed Hamza H. Ali**, German/Egyptian Demonstration Project on Solar Cooling in a Hot Arid Climate. SHC2013, the second international conference on solar heating and cooling for buildings and industry, Freiburg, Germany, September 23-25, 2013.

(140) M. M. Mourad Saleh, **Ahmed Hamza H. Ali**, Ali Kamel Abdel-Rahman. Energy Smart Home as a Proposed Strategy for Renewable Energy Utilization in Hot Desert Cities. The 13th Conference of Sustainable Building SB13, Cairo, November 6-7, 2013.

(141) Åsa Hedman, Pekka Huovila, Pekka Tuominen, Francesco Reda, Carmen Antuña, Jutta Jantunen, Tiina Pajula, Yehia ElMahgary, Ahmad El-Shazly, Ahmed Tawfik, Mohammad Shahin, **Ahmad Hamza**, Ali Kamel and Mona Gamal. EcoCity capacity-building in NBC is a collaborative project between Finland and Egypt. The 13th Conference of Sustainable Building SB13, Cairo, November 6-7, 2013. pp.725-737

(142) Ahmed N. Shmroukh, **Ahmed Hamza H. Ali,** and Ali K. Abel-Rahman. Experimental Study on Adsorption Capacity of Activated Carbon Pairs with Different Refrigerants. ICFMHTT 2013: International Conference on Fluid Mechanics, Heat Transfer and Thermodynamics, Paris, France, November 06-07, 2013

(143) Ahmed N. Shmroukh, **Ahmed Hamza H. Ali,** and Ali K. Abel-Rahman. Adsorption refrigeration working pairs: The state-of-the-art in the application. ICFMHTT 2013: International Conference on Fluid Mechanics, Heat Transfer and Thermodynamics, Paris, France, November 06-07, 2013

(144) Ahmed M.A.M. Serag ElDin, **Ahmed Hamza H. Ali**, Ali K. Abel-Rahman, and S. Ookawara. Effect of Dust Deposition on Performance of Thin Film Photovoltaic Module in Harsh Humid Climate. International Conference on Renewable Energy Research and Applications, ICRERA-2013, 20-23 October 2013, Madrid, Spain.

(145) E. Barakat, K. Ahmed, M. Ahmed, A. Abdel-Rahman, and **Ahmed Hamza H. Ali**. Influence of Parallel Flow Field Design on the Performance of PEM Fuel Cells. IAEMM2013: Proceedings of ICCE 2013: International Conference & Exhibition on Clean Energy, September 09-11, 2013, Ottawa, Ontario, Canada

(146) Mohamed Noureldin Ibrahim, **Ahmed Hamza H. Ali,** and S. Ookawara, Experimental Study on Performance and Emissions of Turbojet Engine Fueled by Alternative Biodiesel. Proc. of The 23rd Int. Conference on Environmental Protection is a Must. 11 – 13 May 2013, Alexandria, Egypt

(147) Mohamed N. Ibrahim, **Ahmed Hamza H. Ali,** and S. Ookawara, Performance Assessment of Turbojet Engine Operated with Alternative Biodiesel. http://proceedings.asmedigitalcollection.asme.org/proceeding.aspx?articleID=1831773; ASME, Paper No. POWER2013-98183, pp. V001T01A026; 10 pages doi:10.1115/POWER2013-98183, Volume 1: Fuels and Combustion, Material Handling, Emissions; Steam Generators; Heat Exchangers and Cooling Systems; Turbines, Generators, and Auxiliaries; Plant Operations and Maintenance; Boston, Massachusetts, USA, July 29–August 1, 2013

(148) Ahmed M. Serag ElDinm, Yehia El-Mahgary, **Ahmed Hamza H. Ali,** and Ahmed Khairy**.** Comparing Socio-economic & Environmental Impacts of Building a 2 GW PV Power Plant (PP) on Both Sides of the Mediterranean. Proc. of the International Renewable and Sustainable Energy Conference (IRSEC'13), March 7-9, 2013, Ouarzazate, Morocco.

(149) Ashraf Amer, **Ahmed Hamza H. Ali**, Yehia Elmahgary, and Shinichi Ookawara. Effect of diffuser configuration on the flow field pattern inside the wind concentrator. Proc. of The International Renewable and Sustainable Energy Conference (IRSEC'13), March 7-9, 2013, Ouarzazate, Morocco.

(150) **Ahmed Hamza H. Ali,** Solar cooling: experiences and lessons learned, Proc. of The International Renewable and Sustainable Energy Conference (IRSEC'13), March 7-9, 2013, Ouarzazate, Morocco.

(151) أحمد حسام الدين شاهين **وأحمد حمزة** وعبد العظيم محمد نجم. عجز الطاقة الكهربية في مصر: المشاكل ومقترحات الحلول. Proc. of the 7th Annual Conf. of the Futuristic Studies at Assiut University and Egypt-Japan University of Science and Technology, Future of New and Renewable Energy in the Arab World, February 12- 14, 2013, Assiut, Egypt.

(152) Mahmoud N. Abdel-Moez, **Ahmed Hamza H. Ali**, I. M. Ismail, Ali K. Abel-Rahman, Ahmed M. Reda, and Peter Schwerdt. Effect of hot and cold buffers on the performance of a residential-scale solar-powered adsorption cooling system. Proc. of the 7th Annual Conf. of the Futuristic Studies at Assiut University and Egypt-Japan University of Science and Technology, Future of New and Renewable Energy in the Arab World, February 12- 14, 2013, Assiut, Egypt.

(153) Ahmed M. Reda, **Ahmed Hamza H. Ali**, Ibrahim S. Taha, Mahmoud N. Abdel-Moez, Mahmoud G. Morsy and Peter Schwerdt. Performance Assessment of a Solar Powered Residential Scale Adsorption Cooling System at Assiut, Egypt. Proc. of the 7th Annual Conf. of the Futuristic Studies at Assiut University and Egypt-Japan University of Science and Technology, Future of New and Renewable Energy in the Arab World, February 12-14, 2013, Assiut, Egypt.

(154) **Ahmed Hamza H. Ali**, Ali K. Abel-Rahman, Teijiro Ichimura, and S. M. Abdelgied. Renewable Energy Resources and Utilization: Comparative Study between the Arab World and Japan. Proc. of the 7th Annual Conf. of the Futuristic Studies at Assiut University and Egypt-Japan University of Science and Technology, Future of New and Renewable Energy in the Arab World, February 12- 14, 2013, Assiut, Egypt.

(155) **Ahmed Hamza H. Ali**, Peter Schwerdt and S. M. Abdelgied. Renewable Energy Resources and Utilization: Comparative Study between the Arab World and Germany. Proc. of the 7th Annual Conf. of the Futuristic Studies at Assiut University and Egypt-Japan University of Science and Technology, Future of New and Renewable Energy in the Arab World, February 12- 14, 2013, Assiut, Egypt.

(156) **Ahmed Hamza H. Ali** and Peter Schwerdt. Solar Cooling: A Case Study of Cooperation between Germany and Egypt in the Assiut University Project. Proc. of the 7th Annual Conf. of the Futuristic Studies at Assiut University and Egypt-Japan University of Science and Technology, Future of New and Renewable Energy in the Arab World, February 12-14, 2013, Assiut, Egypt.

(157) Mahmoud. M. Saleh, **Ahmed Hamza H. Ali,** and Ali K. Abel-Rahman. Renewable Energy Technologies Utilization in Egyptian Desert Cities. Proc. of the 7th Annual Conf. of the Futuristic Studies at Assiut University and Egypt-Japan University of Science and Technology, Future of New and Renewable Energy in the Arab World, February 12- 14, 2013, Assiut, Egypt.

(158) Mahmoud. M. Saleh, **Ahmed Hamza H. Ali,** and Ali K. Abel-Rahman. Solar Energy Utilization in Hot Arid Area Cities: A Proposed Strategy for Egypt's New Desert Cities.

Proc. of the 7th Annual Conf. of the Futuristic Studies at Assiut University and Egypt-Japan University of Science and Technology, Future of New and Renewable Energy in the Arab World, February 12- 14, 2013, Assiut, Egypt.

Year 2012

(159) Ashraf Mostafa, **Ahmed Hamza H. Ali**, Yehia ElMahgary, Shinichi Ookawara, and Mahmoud Bady. Wind Energy Potential for Small-Scale Wind Concentrator Turbines. ACEM12 August 26 -30, 2012, COEX, Seoul, Korea

(160) Ali Mehrez, **Ahmed Hamza H. Ali**, W. K. Zahra, S. Ookawara, M. Suzuki. Study on Heat and Mass Transfer during Urea Prilling Process. 2012 3rd International Conference on Chemical Engineering and Applications-CCEA 2012, 27-28 October 2012, Hong Kong

Year 2010

(161) **Ahmed Hamza H. Ali**, Y. Matsushita, and S. Ookawara, Photovoltaic Module Thermal Regulation: Effect of the Cells Arrangement Configurations on the Performance. International Conference on Energy, Water, and Environment (ICEWE 2010 Amman, Jordan, December 12-15, 2010.

(162) **Ahmed Hamza H. Ali**, M. S. Youssef, and Mahmoud Ahmed. Study of Heat Transfer and Fluid Flow in Transitional Regime Inside a Channel with Offset Plates Heated by Radiation. ASME International Mechanical Engineering Congress & Exposition, IMECE2010-37521, November 12-18, 2010, Vancouver, British Columbia, Canada.

(163) Mahmoud Ahmed, **Ahmed Hamza H. Ali,** and Ibrahim Dincer. Methanol Crossover in Direct Methanol Fuel Cells for Portable Applications: Achievements and Challenges. ASME International Mechanical Engineering Congress & Exposition, IMECE2010-38949, November 12-18, 2010, Vancouver, British Columbia, Canada.

(164) Mahmoud Ahmed, Emad G. Barakat, Ali K. Abdel-Rahman, and **Ahmed Hamza H. Ali**. An Experimental study of operational parameters on the Performance of PEMFCs. ASME International Mechanical Engineering Congress & Exposition, IMECE2010-39080, November 12-18, 2010, Vancouver, British Columbia, Canada.

(165) **Ahmed Hamza H. Ali**. Performance and Operational Experiences of Solar Driven Cooling Plant after Five Years in Operation. International Engineering Conference on Hot Arid Regions (IECHAR 2010), May 1-2, 2010, Al-Ahsa, KSA.

(166) **Ahmed Hamza H. Ali** and Schwerdt, P. "For designing a compact absorber with membrane contactor at liquid-vapor interface: Influence of membrane properties on water vapor transfer" ASHRAE winter meeting, OR-10-043, 10p (2010), Orlando, Florida, 23-27 Jan 2010.

Year 2009

(167) **Ahmed Hamza H. Ali** and Mahmoud Ahmed. Performance of an Absorber with Hydrophobic Membrane Contactor at Aqueous Solution-Water Vapor Interface. ASME ES2009-Energy Sustainability 2009, ES2009-90217, July 19-23, 2009, San Francisco, California, USA.

(168) Mahmoud Ahmed and **Ahmed Hamza H. Ali**. A New Criterion for the Onset of Liquid Entrainment from a Stratified Two-Phase Region through Small Branches. 2009 ASME Summer Heat Transfer Conference, HT2009-88536, July 19-23, 2009, Francis, San Francisco, California, USA.

Year 2008

(169) **Ahmed Hamza H. Ali**, Noeres P., Pollerberg C., and Dötsch C. "Operational experiences of a solar cooling plant." Ref. No. 58, Proceedings of EuroSun 2008, the 1st Int. Conf. on Solar Heating, Cooling, and Buildings, 7th -10th October 2008, Lisbon, Portugal.

(170) **Ahmed Hamza H. Ali** and Schwerdt, P. "Characteristics of the membrane utilized in a compact absorber for lithium bromide-water absorption chillers." 9th Int. IEA Heat Pump Conf., 20 – 22 May 2008, Zürich, Switzerland, ID 5.51, (2008)

Year 2007

(171) Pollerberg C., **Ahmed Hamza H. Ali,** and Dötsch C. “Experimental study on performance of solar-driven steam jet ejector chiller” Proc. of the 3rd Int. Conf. on Thermal Engineering (ICTEA7) Theory and Applications, Amman, Jordan, May 21-23, 2007, pp. 417-422 (2007).

(172) **Ahmed Hamza H. Ali** and Ibrahim M. Ismail, “Effect of the evaporator air-side fouling on performance of unitary air conditioners and its impact on indoor air quality," Proc. of the 3rd Int. Conf. on Thermal Engineering (ICTEA7) Theory and Applications, Amman, Jordan, May 21-23, 2007, pp. 695-700, (2007).

(173) **Ahmed Hamza H. Ali**, M. G. Morsy, I. S. Taha, and M. Hamza. “Experimental Investigation of Comfort Sensation and Performance of Radiant Heating Panel Compared with Conventional Oil Heater." Proc. of the 3rd Int. Conf. on Thermal Engineering (ICTEA7) Theory and Applications, Amman, Jordan, May 21-23, 2007, pp. 635-640 (2007).

Year 2005

(174) **Ahmed Hamza H. Ali**, “Natural Cooling of Water at Night in Un-Insulated Open Tank by Evaporation, Convection, and Sky Radiation in Hot Arid Areas,” Third Int. Conf. on Energy Research & Development (ICERD-3), Sheraton Hotel, Kuwait, November 21 - 23 (2005).

(١٧٥) محمد عبد السلام عاشور, عادل عبده حسين, **أحمد حمزة حسيني علي**, and مؤمن طه المليجي. "استخدام برمجيات المحاكاة المتقدمة في العمليات الصناعية لضبط محتويات الانبعاثات الغازية والجسيمات الناتجة عن حرق أنواع الوقود المختلفة لتتوافق بيئيا." مؤتمر الوطن العربي والتقنيات الحديثة للطاقة من أجل ازدهار البيئة—قاعة المؤتمرات الكبرى بجامعة الدول العربية, ٢٧-٢٩ September ٢٠٠٥م, pp. 30-46.

Year 2002

(176) **Ahmed Hamza H. Ali**, Ibrahim M. S. Taha. “Feasibility of Implementing Desiccant Enhanced Nocturnal Radiative Cooling-Solar Collector System for Air Comfort Application in Hot Arid Areas of Upper Egypt." Proc. of the Second World Conference on the Technology Advances for Sustainable Development, Cairo, Egypt, March 11-14 (2002).

Year 2000

(177) **Ahmed Hamza H. Ali**, Ibrahim M. S. Taha, and N. Y. Abdel-Shafi, “Shortwave and Longwave Radiation Fluxes and Cloud Pattern Mapping Using Satellite Surface Measurements Over Egypt," Proc. of Cairo 7th International Conference on Energy and Environment, Cairo, EGYPT, 11-13 March 2000, Vol. 1, pp. 187-201 (2000).

Year 1998

(178) **Ahmed Hamza H. Ali**, K. Kishinami, Y. Hanaoka, and J. Suzuki, “Study on Design Parameters and Characteristics of Laminar Flow Forced Convection Heat Transfer in a Channel with Offset Plates Heated by Radiation," Proceedings of HPC ASIA '98, 3rd HIGH-PERFORMANCE COMPUTING ASIA CONFERENCE, 23-25 September 1998, at Raffles City Convention Center, The Westin Stamford & Westin Plaza Hotels, SINGAPORE, Vol 2, PP. 1129-1138 (1998).

(179) K. Kishinami, **Ahmed Hamza H. Ali,** and J. SUZUKI, “Study on Energy Storage Characteristics of Rock Bed by Using Solar Radiation Simulation System," Proc. of the 35th National Heat Transfer Symposium of Japan, Nagoya International Conference Center, Nagoya City, May 27-29, 1998, Vol: I, pp. 235- 236 (1998).

(180) K. KISHINAMI, J. SUZUKI, **Ahmed Hamza H. Ali**, and M. Tsurubami, “Unstable Behaviors of Combined Free and Forced Convective Heat Transfer from a Vertical Plate Followed by a Backward Step," Proc. of the 35th National Heat Transfer Symposium of Japan, Nagoya International Conference Center, Nagoya City, May 27-29, 1998, Vol. III, PP 763-764 (1998). (In Japanese).

(181) K. Kishinami, J. Suzuki, **Ahmed Hamza H. Ali**, H. Kume, and S. Kurashina. “Study on High-Performance Solar Air Heater Collectors with Rock Bed Storage System." Proc. of the First Annual Meeting of Japan Heat Pump Society, The Hokkaido Branch, Hokkaido University International Conference Center, Sapporo, Hokkaido, Japan, March 24, 1998, pp. 29-35, (1998). (In Japanese)

(182) **Ahmed Hamza H. Ali**, K. Kishinami, Y. Hanaoka, and J. Suzuki, “Study on Dynamic Behavior of Laminar Flow Forced Convection Heat Transfer in a Channel Having Offset Plates Heated by Radiation," Proc. of the 11th Symposium of Engineering in Cold Climates 1998, Kadero 2.7, Sapporo 60, Hokkaido, Japan, April 18, 1998, PP 17-30, (1998).

(183) K. Kishinami, **Ahmed Hamza H. Ali**, N. Kamada, H. Kume, S. Kurashina, and J. Suzuki, "Experimental Study on Short-Term Thermal Energy Storage in Rock Bed Using Solar Radiation Simulation System," Proc. of The 11th Symposium of Engineering in Cold Climates 1998, Kadero 2.7, Sapporo 60, Hokkaido, Japan, April 18, 1998, PP 39-44, (1998).

(184) H. Kume, S. Kurashina, K. Kishinami, **Ahmed Hamza H. Ali,** and J. Suzuki, "Thermal Characteristics of Storage Tank with Air Heating Solar Collector," Proc. of the 27th Annual Meeting of JSME Hokkaido, JAPAN, Muroran Institute of Technology, Muroran, Hokkaido, JAPAN, March 8, 1998, pp. 227- 228, (1998). (In Japanese).

Year 1997

(185) **Ahmed Hamza H. Ali**, K. Kishinami, Y. Hanaoka, and J. Suzuki. "A Transient Behavior of Forced Laminar Convective Heat Transfer in a Channel with Offset Plates Heated by Radiation." Proc. of the Tenth International Conference on Mechanical Power Engineering (MPE-10), Faculty of Engineering, Assiut University, Assiut 61516, EGYPT, December 16-18, 1997, PP. 109-122 (1997).

(186) K. Kishinami, K. Yamazaki, H. Saito, J. Suzuki and **A. H. H. Ali** "A Fundamental Investigation of A Coupled Heat & Mass Transfer's Characteristics on Drying Moist Fiber-Porous Materials with Bottom Heated and Outer Surface Exposed to A Forced Convection" Proc. of The Tenth International Conference on Numerical Methods in Thermal Problems, University of Wales Swansea, Swansea, UK July 21-25, 1997, PP 543-554, (1997).

(187) **Ahmed Hamza H. Ali**, K. Kishinami, Y. Hanaoka, and J. Suzuki "Numerical Analysis of Laminar Forced-Convection Heat Transfer in Air Flowing Through Offset Plates Heated by Radiation Heat Flux" Proc. of The Tenth International Conference on Numerical Methods in Laminar and Turbulent Flow, held in the University of Wales Swansea, Swansea, UK, July 21-25, 1997, PP 953-964, (1997).

(188) **Ahmed Hamza H. Ali**, Y. Hanaoka, K. Kishinami, and J. Suzuki, "Forced Laminar Convection Heat Transfer of Air with Offset Plates Heated by Radiation I- Experimental Study" Proceedings of FTEC'97, International Conference on Fluid and Thermal Energy Conversion '97, Yogyakarta, INDONESIA, July 21-24, 1997, PP. 333-340 (1997)

(189) **Ahmed Hamza H. Ali**, K. Kishinami, Y. Hanaoka, and J. Suzuki, "Forced Laminar Convection Heat Transfer of Air with Offset Plates Heated by Radiation II- Numerical Study" Proceedings of FTEC'97, International Conference on Fluid and Thermal Energy Conversion '97, Yogyakarta, INDONESIA, July 21-24, 1997, PP. 321-327 (1997).

(190) **Ahmed Hamza H. Ali**, Y. Hanaoka, K. Kishinami, and J. Suzuki, "Effect of Inlet Air Bulk Temperature on Steady-State Laminar Flow Convection Heat Transfer Coefficient of Air with Offset Plates Heated by Radiation," Proceedings of FTEC'97, International Conference on Fluid and Thermal Energy Conversion '97, Yogyakarta, INDONESIA, July 21-24, 1997, PP. 329-332 (1997).

(191) **Ahmed Hamza H. Ali**, Y. Hanaoka, K. Kishinami, and J. Suzuki, "A Numerical Study of the Solar Thermal Energy Storage System in A Rock Bed," Proceedings of MEGASTOCK '97, 7th Int. Conf. on Thermal Energy Storage, Sapporo, Japan, 18 June-21 June 1997, Vol. 2, PP. 599- 604 (1997).

(192) **Ahmed Hamza H. Ali**, K. Kishinami, Y. Hanaoka, N. Kamada, J. Suzuki, T. Yamaguchi, and N. Okuyama "Experimental Study of Thermal Performance for Two Types of Air Solar Collectors (V-Corrugated Absorber Compared with Offset Plates Absorber)" Proc. of The 10th Symposium of Engineering in Cold Climates 1997, Kitami Institute of Technology, Kitami 090, Hokkaido, Japan, April 19 1997, PP 1- 10 (1997).

Year 1996

(193) **Ahmed Hamza H. Ali**, H. Saito, K. Kishinami, and J. Suzuki, "Air Heater Solar Collectors-A Review of the Absorber Plate Configurations," Proc. of Energex'96 The 6th International Energy Conference, 3-7 June 1996, Beijing, China, PP. 335-340 (1996).

(194) **Ahmed Hamza H. Ali**, H. Saito, K. Kishinami, and J. Suzuki, "Experimental Study of the thermal performance of a Solar Air Heater Having a V-Corrugated Absorber," Proc. of Energex'96 The 6th International Energy Conference, 3-7 June 1996, Beijing, China, PP. 353-358 (1996).

	(195) **Ahmed Hamza H. Ali**, H. Saito, I.M.S. Taha, and I.M. Ismail. "Experimental Study on Effect of the Meteorological Condition on the Performance of Nocturnal Cooling of Water in Open Loop System" Presented at Energex'96, The 6th International Energy Conference, 3-7 June 1996, Beijing, China (1996). (196) **Ahmed Hamza H. Ali**, H. Saito, K. Kishinami, N. Kamada, and J. Suzuki, "Experimental Study on Heat Transfer of Air in an Inclined Channel with a V-Corrugated Upper Plate Heated by Radiation," Proc. of The 5th International Symposium on Thermal Engineering and Science for Cold Regions, May 19-22, 1996, Ottawa, Canada, PP. 379-384 (1996). (197) **Ahmed Hamza H. Ali**, K. Kishinami, J. Suzuki, I.M.S. Taha, and I.M. Ismail, "Effect of the Meteorological Condition on the Performance of Nocturnal Cooling of Flowing Water," Proc. of the 9th Computational Mechanics Conference, JSME, Mumuchi Palace, Fukuoka, Kyushu, Japan, November 27-29, 1996, [No.96-25], PP. 229-230 (1996). (198) **Ahmed Hamza H. Ali**, Y. Hanaoka, K. Kishinami, and J. Suzuki, "Solar Energy Availability Prediction From Climatological Data and its Contribution to Domestic Heating for Muroran City, Hokkaido, Japan" Proc. of the 9th Symposium of Engineering in Cold Climates 1996, Muroran City Enterprise Technical Center, Muroran, Hokkaido, Japan, April 19, 1996, pp. 1- 8 (1996). (199) T. Ishikawa, J. Yoshida, **Ahmed Hamza H. Ali**, H. Saito, K. Kishinami, N. Kamada, and J. Suzuki, "A Study on Air Heater Solar Collectors," Proc. of The 9th Symposium of Engineering in Cold Climates 1996, Muroran City Enterprise Technical Center, Muroran, Hokkaido, Japan, April 19, 1996, PP 15-22 (1996). (In Japanese) **Year 1995** (200) **Ahmed Hamza H. Ali**, H. Saito, I.M.S. Taha, and I.M. Ismail, "Effect of Aging, Thickness, and Color on the Radiative Properties of the Polyethylene Films," Proc. of ATPC 4th Asian Thermophysical Properties Conference, September 5-8, 1995, Tokyo, Japan. Vol. 1, PP. 185-188, (1995). (201) **Ahmed Hamza H. Ali**, H. Saito, I.M.S. Taha and I.M. Ismail, "Cooling of Water by Nocturnal Cooling Radiation in a Closed Loop Forced Circulation System" Proc. of The 35th Annual Meeting of JSME Hokkaido, JAPAN, National Technical College of Asahikawa, Hokkaido, JAPAN, September 30, 1995, [No. 952-1], PP 149-150, (1995). **Year 1994** (202) **Ahmed Hamza H. Ali**, I.M.S. Taha, and I.M. Ismail, "Cooling of Water Flowing Through a Night Sky Radiator, Proc. of 19th National Passive Solar Conference, Solar 94, San Jose, California, USA, June 25-30, 1994, Vol. 19, PP 254-260, (1994).
Presentations (Invited Speaker)	(203) Thermal Management System for Power Batteries in Electric Vehicles, *One Week International Faculty Development Programme (FDP).* Advances in Renewable Energy: Emerging Systems and Sustainable Solutions (ARE-2026), January 27–31, 2026. Department of Mechanical Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur, India (204) Towards a Strategic Platform for Water-Food-Energy-Environment (WFEE) Nexus to Support Strategic Planning, 4th International Conference on New and Renewable Energy Resources for Sustainable Future, ICONRER-2023, Jaipur, India, during Nov 02-04, 2023 (205) ETF Skills Lab Network of Experts live event: "Skills Revolution: understanding and developing skills for a digital era", Turin, Italy, 9th and 10th October 2023. (206) Sustainable Cooling of Educational Space using an Underground Water-Cooling System. Humboldt Kolleg "Functional Material Development for New World" Mahdia, Tunisia, October 5 - 7, 2023 (207) Sustainable Cooling Systems in Refrigeration and Air Conditioning, 2nd International Conference on New and Renewable Energy Resources for Sustainable Future (ICONRER-2019), Swami Keshvanand Institute of Technology, Management and Gramothan (SKIT), Jaipur – India, November 07-09, 2019

	(208) Contributed to the workshop session on renewable energy as an expert resource at the REN21 Academy 2018, Berlin, Germany, 19-21 November 2018 (209) The Future of Solar Energy: The Case of Egypt, Humboldt Kolleg: German-Egyptian Network for Innovation and Development, InterContinental Cairo Citystars, Cairo, Egypt, February 22 and 23, 2017 (210) Solar Energy Driven/Assisted Cooling and Refrigeration Systems, International Conference on New and Renewable Energy Resources for Sustainable Future (ICONRER-2017), 2nd to 4th February 2017. Swami Keshvanand Institute of Technology, Management, and Gramothan (SKIT), Jaipur - India (211) Solar-Driven Cooling Systems versus Conventional Air-Conditioning for Residential Buildings in Hot, Arid Areas. Re-Thinking Energy: Scientific Input – Social Output Conference, 7-8 November 2015, German Science Centre in Cairo (DWZ), 11 El Saleh Ayoub St., Zamalek (212) Energy: The Big Picture. International School. Materials for Renewable Energy 2014, 12 to July 18, 2014, Erice, Sicily, Italy (213) Effect of the Environmental Conditions in Harsh Areas of Egypt on PV System Performance. Int. Conf./ Humboldt Kolleg "Building International Network for Enhancement of Research in Jordan, April 3-5, 2014, Princess Sumaya University for Technology (PSUT), Amman, Jordan. (214) Effect of the Environmental Conditions in Harsh Areas of Egypt on PV System Performance. Energy Med – SHAAMS Workshop, March 27, 2014, Mostra d'Oltremare, Naples, Italy (215) Status of Renewable Energy Resources and Utilizations in the Arab World Compared with Germany. At the Crossroad between Africa, Asia, and Europe: Challenges and Perspectives-the Alexander-von-Humboldt Association of a four-day Meeting, May 30 – June 2, 2013, Venice, Island of San Servolo, Italy (216) Effects of large-scale renewable energy projects on climate, water, and ecosystems. Workshop on socio-economic impacts from large-scale renewable energy cooperation between the Middle East and North African region (MENA) and the European countries. IIASA, 22-23 May 2013 in Luxembourg, Austria. (217) Session 5: Decentralized System for Energy Access, First Forum of the Africa-EU Energy Partnership, Cape Town, South Africa, May 9-10, 2012. (218) Comparison between Solar Driven Cooling System with Conventional Non-Water Vapour Air-Conditioning Unit: Energy Saving and Impact on Global Warming. Session 1: Energy, Humboldt Kollege, New Prospects and Challenges for Science and Education in the MENA region, Marrakech, Morocco, March 9-11, 2012. (219) Solar Cooling Systems: Experiences and Lessons Learned with Three Different Systems. Workshop Energy Engineering in Dresden, 10-14 December 2012, Dresden, Germany
Theses	• **Ahmed Hamza H. Ali** "Study on Characteristics and Design Parameters of Laminar Flow Forced-Convection Heat Transfer in Channel with Offset Plates Heated by Radiation" Dr.-Ing Dissertation, Graduate School of Engineering, Division of Production and Information Systems Engineering, Muroran Institute of Technology, Muroran, Hokkaido 050, Japan. (December 1998) • **Ahmed Hamza H. Ali** "Cooling of Water Flowing Through a Night Sky Radiator" M. Sc thesis, Dept. of Mech. Eng., Assiut University, Assiut 71516, EGYPT. (September 1992)
References	Available upon request

Last updated on February 27, 2026