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 Style 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:** • **Vice President-New Cairo Technological University,** New Cairo, Cairo, Egypt (Feb 2023 – till now) • **Professor and Chairman of Mechanical Power Engineering Department**, Faculty of Engineering, Assiut University, Assiut 71516, Egypt (July 2021 – till now) • **Professor of Refrigeration and Air-Conditioning**, Mechanical Power Engineering Department, Faculty of Engineering, Assiut University, Egypt (June 2009 – till now) • **Fellow, Professor Academy of Scientific Research &Technology**, Cairo, Egypt (November 2015 – 2018 and 2021-till now) • **Professor and Chairman of Mechanical Engineering Department**, Faculty of Engineering, Assiut University, Assiut 71516, Egypt (July 2017 – to 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). • **Graduate** and Undergraduate Energy Engineering Education strategies planning
Professional and practice Experiences	• 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 Now	May 2010 to Jan 2015	For all project stages, I was the Egypt side designer and engineering consultant partner with Oriental Consultants Co., LTD., Tokyo, from the site survey until finalizing of the tender documents. This includes but is not limited to plant design, the issue of the local license needed., etc. 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 prepared Egypt's state-of-the-art report on Energy resources and needs. This is followed by the solar energy sector, particularly with a proposal for long-term recommended policies for utilizing solar energy resources. I prepared the project progress reports.	SHAAMS project aims at raising public awareness of solar energy through the transferability and implementation of good practices in legal, regulatory, economic, and organizational issues and financing mechanisms to facilitate the take-up 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	In this short-term task, I searched for Egypt's available industrial solar heating and cooling plants. I visited these project sites and found six industrial solar heating plants and two solar cooling plants. Some of these plants are in operation, while others are not working, and some of their hardware disappeared. Therefore, based on these projects' state-of-the-art available documentation, I prepared the technical status report to support my evaluation and recommendation for the suggested project that can be directed for implantation	Is to report to the project manager in Austria the main project activities should the project cover and tasks based on actual ground satiation of solar heating and cooling state of the art 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 Egypt, carried out the design tender documents, and supervised the installation and system operation. I prepared the project progress reports.	This applied research project includes designing, setting up, and operating an integrated solar-operated residential cooling plant in a hot, arid area. It is based on electrical energy consumption, the evaluation of environmental benefits, and long-run costs. The project objective is also to compare experimentally and analytically the residential energy scale solar-driven system to an electrically driven vapor compression chiller under the operating conditions of hot areas.

Scientific and Professional Memberships	• Member of the Egypt 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 now (for the 3rd round). • Member 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 World Society of Sustainable Energy Technologies, UK, August 2013 until now. • Egyptian Engineering Energy Consultancy, from 2012 until now. • International Solar Energy Society (ISES) from 1994 until now. • Engineering Consultations and Studies Centre, Faculty of Engineering, Assiut University, Egypt, from 1999 until now.

	● Egyptian Engineering Syndicates 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) ● Finland Government, Finland, Award (June 1985 – Sept. 1985) ● Scholarship, Government of Egypt, (undergraduate study from Oct. 1982- June 1986) due to obtaining top student in a class of about 70 students.
Teaching Experiences from 1987 till now	*Undergraduate Level:* 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 till now

No.	Degree	Thesis title	
1	MSc	Numerical Study of Some Class of Boundary Heat and Mass Transfer Problems- Case Study of Urea Prilling Process	completed
2	PhD	Development of A Small-Scale Wind Concentrator Turbine	completed
3	MSc	Performance Assessment of Turbojet Engine Operated with Alternative Biodiesel	completed
4	MSc	Effect of Dust Deposition and Ambient Air Temperature on Performance of Photovoltaic Modules	completed
5	MSc	Study of The Characteristics of Photovoltaic Modules Under Different Environmental Conditions	completed
6	PhD	Theoretical and Experimental Study of the performance of an Adsorption Cooling System Using Activated Carbon/R134a Pair	completed
7	MSc	Optimization of Thermal Storage System Integrated in a Solar-Powered Adsorption Cooling System	completed
8	MSc	Experimental and Simulation Study of the Thermal Comfort Conditions within Recent Designed Governmental Primary Schools in Egypt	completed
9	MSc	Performance of a Solar Driven Refrigerator with Thermal Cold Storage for Agriculture Crops Reservation	completed

10	PhD	Study on Heat and Mass Transfer in Adsorbent Pairs for Development of Compact Adsorption Chiller	completed
11	PhD	Renewable Energy Utilization for New Cities in Hot Arid Areas: A Proposed Strategy for Egypt	completed
12	MSc	Assessment of Energy Status for Existing Office Buildings using the World Standards of Energy Star System	completed
13	MSc	Effect of Flow Field Passage Configurations on the Performance of Proton Exchange Membrane Fuel Cells (PEMFCs)	completed
14	PhD	Performance and Optimization of a Solar Driven Small-Scale Adsorption Cooling System	completed

Research and Professional Activates 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 of a project titled: Design and Performance of CSP technology effective in Hybrid PV/T System in Hot Area using Nanofluid. Submitted to Joint Research Grant Under the India-Egypt Agreement on Science and Technology Cooperation, Egypt, 2019

(2) 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

(3) CO-PI of a project titled: Solar Driven Transportable Refrigerator for Postharvest Crops Handling Form Desert Areas Farms. KSA International Collaboration Grant with Taif University, KSA, 2019

(4) 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)

(5) PI of a project titled: Solar-driven transportable cold storage for post-harvest crops in desert areas of Egypt, JESOR---Development Academy of Scientific Research and Technology, Egypt, May 2016- June 2018

(6) CO-PI of a project titled: A dynamic Techno-Economical Analysis of the Energy System of Egypt, Academy of Scientific Research and Technology, Egypt, Sept 2016- Feb 2018

(7) 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.

(8) 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.

(9) 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

(10) 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

(11) CO-PI of a project titled: Dual Renewable Energy GOLF CAR, King Saud University, May 2011- Sept 2011

(12) 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 Found (STDF)

(13) Optimization Study on Operation of Solar-Thermal Driven Plants for Cold Production, German Ministry of Economy (Project No. FKZ 0327406D-2007)
(14) 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)
(15) Untersuchung und Optimierung eines Verfahrens zur solaren Kälteerzeugung auf Basis von Parabolrinnekollektoren und einer Dampfstrahlkältemaschine. Deutsche Bundesstiftung Umwelt, Germany (Project No. AZ 22692- 2006)
(16) 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 Transaction, 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 of 7th Int. Conf. On Future of New and Renewable Energy in Arab World, February 12- 14, 2013, Assiut, Egypt. Joint Conference between EJUST and Assiut University

Languages/Special Skills

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

Co-editor for the following Journals

1- **International Journal of Energy and Water Resources (ISSN 2538-3604) Springer** https://www.springer.com/journal/42108/editors
2- **Journal of Engineering and Applied Science ISSN: 2536-9512 (electronic), ISSN: 1110-1903 (print)** https://jeas.springeropen.com/about/editorial-board
3- **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
4- **Journal of Engineering Sciences (JES) Print ISSN 1687-0530, Online ISSN 2356-8550** https://jesaun.journals.ekb.eg/journal/editorial.board

List of Publications

Scopus H-index 20, total citation 1141, as per March 5, 2023
https://www.scopus.com/authid/detail.uri?authorId=7403355399
https://orcid.org/0000-0002-8734-6762

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

Year 2023

(1) Dinesh Kumar Sharma, Dilip Sharma, and **Ahmed Hamza H. Ali**, Multi-Attribute Decision-Making Tools for Selection of PCMs as Latent Heat Thermal Energy Storage Integrated With Solar-Driven Libr-H2O Vapor Absorption System. International Journal of Ambient Energy, https://doi.org/10.1080/01430750.2023.2188257 Accepted March 5, 2023

Year 2022

(2) 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, 82390–82410, https://doi.org/10.1007/s11356-022-21505-2

Year 2021

(3) Dinesh Kumar Sharma, Dilip Sharma and **Ahmed Hamza H. Ali** (2021). Selection of phase change material for thermal energy storage integrated with solar-powered vapour

absorption system. Int. J. Environment and Sustainable Development, Vol. 20, Nos. 3/4, 2021, pp 297-300, https://doi.org/10.1504/IJESD.2021.116863

(4) Dinesh Kumar Sharma, Dilip Sharma and **Ahmed Hamza H. Ali** (2021). Exergy Destructions Analysis of Evacuated Tube Compound Parabolic Concentrator, Applied Solar Energy, Vol. 57, No. 5, pp. 420–429. https://doi.org/10.3103/S0003701X2105011X

Year 2020

(5) Dinesh Kumar Sharma, Dilip Sharma and **Ahmed Hamza H. Ali** (2020). State of the art on solar-powered vapor absorption cooling system 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

(6) 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

(7) **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

(8) **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

(9) **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,

(10) **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,

(11) **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,

(12) **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,

(13) **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://doi.org/10.1016/j.seta.2017.01.006

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

(15) 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

(16) 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

(17) 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

(18) 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

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

Year 2015

(20) 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)

(21) 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

(22) 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)

(23) Ahmed Elnozahy, Ali K. Abdel Rahman, **Ahmed Hamza H. Ali**, Mazen Abdel-Salam, and S. Ookawara "Performance of a PV module integrated with 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

(24) **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

(25) 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).

(26) 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

(27) 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)

(28) 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)

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

(30) 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

(31) **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)

(32) **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

(33) 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)

(34) 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)

(35) 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

(36) 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)

(37) 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)

(38) 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)

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