

CURRICULUM VITÆ

The personal data	
Full name	Hassanain ghani hameed Hassan Al-hussaini
Date of birth	25/5/1977
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Academic Qualifications				
Qualification	University Name	Field- Specialization	Location / Country	Graduation Year
BSc	Kufa	Engineering/Mechanics	Iraq	2000
MSc	Kufa	Engineering /Thermo Mechanics	Iraq	2004
Ph.D	Basra	Engineering /Thermo Mechanics	Iraq	2015

Scientific expertise		
Jobs and positions that work out	From the date - to date	Review of the main tasks of the job or position
External lecturer, Department of Mechanical Engineering at Kufa University	2004-2005	
lecturer, Department of Automobile Engineering- Technical College- Najaf	2005-2019	
Rapporteur, Department of Automobile Engineering- Technical College- Najaf	2007-2008	
Administrator of Dormitories, Engineering- Technical College- Najaf	2005-2007 2008-2010	
Director of Dormitories, Al-Furat Al-Awsat technical university	2015-up to now	
Member of Iraqi Academic Syndicate/ Najaf Branch	2018- up to now	
Financial Administrator of Iraqi Academic Syndicate/ Najaf Branch	2018- up to now	
Dean of Najaf Technical College	15/12/2019- up to now	

Research Interest Areas
Fluids, heat transfer, thermodynamic, nanofluids and renewable energy

Supervision of M. Sc. Students		
Title of M.Sc Thesis	From the date - to date	Name of student and the position of the work
Numerical and Experimental Study for	2018-2020	Muntadar M. Ali/Najaf-engineering technical college

Enhancement of a single-slope solar still productivity for different water depths using PCM-nanoparticles		
Investigation The Effect of Enhancing Evaporation-Condensation Process on a Conventional Solar Still Performance	2019-2021	Zahraa Abdulkareem/Najaf-engineering technical college
Thermal analysis and temperature distribution study of oil cooled large power transformers windings in transmission grid	2019-2021	Aymen Abdulkareem Abass /Najaf-engineering technical college
Investigation the effects of preheating raw water with different methods and flash cooling and cleaning of glass cover on the performance of single slope solar still	2019-2021	Zahraa Abass/Najaf-engineering technical college
Thermal Design of Single Slope Solar Still with Steam Generator by Fresnel lens Applications	2021-2023	Duaa chafat/Najaf-engineering technical college
Experimental Investigation for Performance of a Single Slope Solar Still Integrated with a Solar Collector and External Condenser System	2022-2024	Hussain Euliawe/Najaf-engineering technical college
Performance evaluation of a single slope solar still integrated with a solar air heater as external condenser and using magnetic field	2022-2024	Fatimatulzahraa Adnan Rahi Alnassiry/ Najaf-engineering technical college
Performance evaluation of single slope solar still integrated with solar air heater-preheating system	2024-2026	Karrar Abdulkareem/Najaf-engineering technical college
Numerical and experimental study of a new design solar still with different performance enhancement techniques	2023-2026	Muntadar M. Ali/Najaf-engineering technical college
Investigation of pool boiling heat transfer enhancement with surface modification techniques	2024-2027	Ghaith Muneam/Najaf-engineering technical college

Scientific Activities and literature and published research (Book - Journal - Conference)

No.	Research Title	Publisher	Date of Publishing
1-	An Experimental Study On An Asymmetric Solar Water Distillation System	1 st scientific Conference/Najaf Technical college	2008
2-	Experimental Study for Productivity Enhancement of a Parabolic Solar Concentrator System	Al-Qadisiya Journal for Engineering Sciences	2010
3-	Enhancement of a Single – Slope Solar Still Productivity For a Different Water Depths	Babylon Journal for Engineering Sciences	2011
4-	Numerical Investigation of the Effect of Wire Screen Mesh Specification and Evaporator Length on Thermal Performance of Cylindrical Heat Pipe	Al-Basra Journal for Engineering Sciences	2014
5-	Numerical Simulation of Thermal Performance of Constant Conductance Cylindrical Heat Pipe Using Nanofluid	Al-Qadisiya Journal for Engineering Sciences	2014

6-	Experimental Investigation of Thermal Performance of Variable Conductance Cylindrical Heat Pipe Using Nanofluid	International Journal of Engineering and Sciences	2014
7-	Numerical Simulation of Thermal Performance of Variable Conductance Cylindrical Heat Pipe Using Nanofluid	Kerbala Conference for Engineering Sciences	2014
8-	Power Production Evaluation from Residual Industrial Heat	International Journal of Innovative Research in Science, Engineering and Technology	2016
9-	Investigation the effect of calcinations degree and rotary kiln gases Bypass opining in the preheating system for dry cement industries	International Journal of Latest Trends in Engineering and Technology	2018
10-	Experimental Investigation of the Enhancement Parameters on the Performance of Single-Slope Solar Still	International Journal of Latest Trends in Engineering and Technology	2018
11-	Numerical Investigation of Free Convection Heat Transfer with non-Newtonian Fluid in Different Enclosures Geometries	International Journal of Scientific & Engineering Research	2018
12-	Study of Forced Convection Heat Transfer with non-Newtonian Fluid in circular tube	International Journal of Scientific & Engineering Research	2018
13-	Study the effect of dust on performance of PV panel and design cleaning system	International Journal of Energy and Environment	2019
14-	Numerical Investigation for Single Slope Solar Still Performance with Optimal Amount of Nano-PCM	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	2019
15	Experimental Investigation of a Single Slope Solar Still Performance - Evaporation Process Enhancement	2 nd international scientific Conference of al Ayen university-IOP	2020
16	Effect of utilization of wick on single slop solar still performance	Al-Furat Journal of Innovations in Mechanical and Sustainable Energy Engineering (FJIMSE)	2020
17	Solar Still Productivity Improvement Techniques and Recent Advancements: Review Study	Al-Furat Journal of Innovations in Mechanical and Sustainable Energy Engineering (FJIMSE)	2021
18	Experimental Investigation of a Single Slope Solar Still Performance- Evaporation Process Enhancement Using Evacuated Pipes	1 nd international Conference on Advanced Research in Engineering Sciences and Technology (ICAREST)-IOP- Al Mustaqbal University Collage	2021
19	Effect of Additives on Enhancing the Heat Transfer of Large Oil-Transformer Radiator in Transmission Grid	Al-Furat Journal of Innovations in Mechanical and Sustainable Energy Engineering (FJIMSE)	2021
20	Performance of A New Model of Air Heating System: Experimental Investigation	Journal of Mechanical Engineering Research and Developments	2021
21	Review of Oil Cooling Methods for Large Transformer Coils in the Transmission Grid	Design Engineering	2021
22	Numerically investigating the effects of feed water Preheating tank design on the performance of single Slope solar still	Frontiers in Heat and Mass Transfer	2021
23	Productivity Enhancement of Solar Still by Solar Irradiation Collecting Techniques: Review Study	1st International Conference on Achieving the Sustainable Development Goals, AIP	2022

24	Experimental Study for Single Slope Solar Still Performance Enhancement Using Steam Generator and Fresnel Lens	An Interdisciplinary Journal of Neuroscience and Quantum Physics	2022
25	Experimentally evaluating the performance of single slope solar still with glass cover cooling and square cross-section hollow fins	Case Studies in Thermal Engineering	2022
26	Performance study on a solar concentrator system for water distillation using different water nanofluids	Heliyon	2023
27	A numerical investigation of the enhancement of single-slope single-basin solar still productivity	Energy Reports	2023
28	Analysis of Drone Wireless Communication System Performance Affected by Vibration based on 1DCNN.	International Journal of Robotics & Control Systems	2024
29	AN EXPERIMENTAL STUDY OF THE PERFORMANCE OF A FINNED TUBE SOLAR COLLECTOR ON A SINGLE SLOPE SOLAR STILL	Egyptian Journal of Petroleum	2024
30	Performance enhancing of single slope solar still using glass cover cooling	AIP Conference Proceedings	2024
31	Techniques for improving the productivity of a single slope solar still distillation of fresh water: A review paper	AIP Conference Proceedings	2024
32	A practical comparative study of the performance of a single slope solar still with a new design	Renewable Energy and Sustainable Development	2024
33	Experimental Investigation on Thermal Performance of Solar Air Heater using Nano-PCM	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	2024
34	Performance Study for Single Slope Solar Still Integrated with Different Types of Solar Collectors	Desalination and Water Treatment	2024
35	Investigating the Influence of Temperature on UAV Signal Quality.	International Journal of Robotics & Control Systems	2024
36	Numerical Investigation of the Effect of Wind Speed on Performance of Single-Slope Solar Still	Solar Energy and Sustainable Development Journal	2024
37	A comparative experimental analysis for a single slope solar still with evaporation process enhancement	AIP Conference Proceedings	2024
38	A practical study of a single-slope solar still with a new design: a comparative study.	Renewable Energy and Sustainable Development	2024
39	Assessment of the Effect of using a Magnetic Field on a Single Slope Solar Still Performance Integrated with an External Condenser Unit	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	2025
40	Design and Testing of a Single-Slope	Heat Transfer journal	2025

	Solar Still With a Semi-Elliptical Absorbent Base: An Experimental and Numerical Study		
41	Enhancing Single-Slope Solar Still Performance with Copper Pipe Solar Collector: An Experimental and Comparative Study	AIP Conference Proceedings	2025
42	Enhancing solar still productivity and efficiency using external condensers and a copper pipe solar collector	Journal of Thermal Science and Engineering Progress	2025
43	Performance Evaluation Investigation for Conventional Solar Still with Different Additives	International Journal of Mechanical and Sustainability Engineering Technology	2025
44	Improving heat transfer in pool boiling: a review of surface modifications on horizontal tubes	Journal of Thermal Analysis and Calorimetry	2025

Reviewer at:

Engineering and Technology Journal / University of Technology

Al-Furat Journal of Innovations in Mechanical and Sustainable Energy Engineering (FJIMSE)

3rd International Conference on Engineering Science/Karbala university

1st International Conference on Achieving the Sustainable Development Goals

2nd International Conference on Achieving the Sustainable Development Goals

Case Studies in Thermal engineering Journal

Results in Engineering Journal

Journal of Energy Storage

Desalination Journal

International Journal of Ambient Energy journal

Thermal science and engineering progress journal

Desalination and Water Treatment journal

Measurement-Journal

Practical expertise

Jobs and positions that work out	From the date - to date	Review of the main tasks of the job or position
Administrator of Production, Al Kufa Plant for Soft Drink	2004-2006	
installation of Soft Drink and Mineral Water Factories	2005-2010	
installation of Power Plant in Engineering-Technical College- Najaf	2006	