أ.د. عدنان محمد حسين محمد العبيدي

معامل هيرتش (h-index) = 18

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تاريخ الميلاد: 1974/09/20

عنوان السكن: العراق – كركوك – حي عدن

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الشهادات الاكاديمية

- دكتوراه هندسة ميكانيكية (حراريات ومواد نانوية) من جامعة UMP ماليزيا 2014

Heat Transfer Enhancement by Using Nanofluids in the Automotive Cooling System, 2014, University Malaysia Pahang, Malaysia.

- ماجستير هندسة ميكانيكية (حراريات وطاقات متجددة) من جامعة تكريت العراق 2003

Performance Analysis of Thermal Storage Porous Wall with Passive Solar Heating, 2003, University of Tikrit, IRAQ.

- بكالوريوس هندسة ميكانيكية من جامعة تكريت العراق *1999*

Mechanical Engineering Dept, Faculty of Engineering, University of Tikrit, IRAQ.

اللغات

- اللغة العربية : كتابة وتحدثا. القاء المحاضرات والتدريس باللغة العربية.
- اللغة الانكليزية : كتابة وتحدثا. القاء المحاضرات والتدريس باللغة الانكليزية.

المهام والوضائف التي شغلها:

- مدرس مساعد في هيئة التعليم التقني (2003-2007).
- مدرس في هيئة التعليم التقني (2007-2011).
- استاذ مساعد في هيئة التعليم التقني (2011- 2019).
- أستاذ في الجامعة التقنية الشمالية (2019 – لحد الان).
- محاضرات واشراف على طلبة الدراسات العليا في الكلية التقنية كركوك (2015 – لحد الان).

مجالات البحث العلمي

Heat transfer, Nanofluids, Renewable Energy, Solar Energy, CFD simulation, Thermodynamics, Porous media, Applied physics.

مجالات التدريس

تدريس المواد العلمية التالية:

Fluid Mechanics, Computer Science, Steam power plant, Mechanics, Mathematics, Materials, Heat Transfer, Thermodynamics, Power, AutoCAD.

مجالات الحاسوب

برمجة وصيانة الحاسوب بنظام وندوز Windows 7, Windows 8, Windows10

مهارة في استخدام برامج وورد واكسل واكسز Microsoft Word, Microsoft Excel, Microsoft Excess

مهارة في استخدام برامج اوتوكاد وانسز فلونت وماتلاب AutoCAD, ANSYS FLUENT, Math lab

مهارة في استخدام برامج الرسم كرافر وسيرفر Paint, Grapher, Server,

الخبرات والمهارات

مقيم علمي في المجلات العلمية العالمية التالية:Reviewer for the international journals as

- International Journal of Heat and Mass Transfer.
- International Communication in Heat and Mass Transfer.
- Journal of Nanomaterials.
- Thermal Science.
- Energy Conversion and Management.
- Heat and Mass Transfer.
- Journal of Thermal Analysis and Calorimetry.
- International Journal of Mechanical and Automotive Engineering.
- Journal of Mechanical Engineering and Sciences.
- Applied Thermal Engineering.
- Advances in Natural Sciences: Nanoscience and Nanotechnology

Reviewer for international conferences as:**مقيم علمي في المؤتمرات العلمية العالمية التالية:**

- International Conference of Mechanical Engineering Research (ICMER) 2015, Universiti Malaysia Pahang (UMP), 18-19 August 2015, Kuantan, Pahang, Malaysia
- UTP-UMP Symposium on Energy Systems (SES) 2015, 7 Oct, Chancellor Complex, Universiti Teknologi Petronas (UTP), Bandar Seri Iskandar, Perak, Malaysia.
- 10th International Conference on Electrical Engineering, ICEENG 2016, 19-21 April, M.T.C., Cairo, Egypt.
- First international conference of Al-Ketab College, Baghdad, Iraq, December 2017.

الاشراف والتحرير العلمي:

Proceedings editor:

- Editor section of NTU journal of Engineering and Technology (P-ISSN: 2788-9971 E-ISSN:2788-998X)
- Proceedings of Quality Engineering Presentation, Faculty of Mechanical Engineering, Universiti Malaysia Pahang (UMP), 24 June 2015, Kuantan, Pahang, Malaysia.
- Proceedings of Mechanical System Design Project, Faculty of Mechanical Engineering, Universiti Malaysia Pahang (UMP), 5 July 2015, Kuantan, Pahang, Malaysia.
- Science PG journal, Engineering and Applied Science (EAS), February 2021.

الكتب المولفة الحاصلة على رقم دولي:

1. **Adnan Mohammed Hussien, Kamal Jalal, Suad Hassan Danook. "Advanced Engineering Thermodynamics and Applications" , LAP LAMBERT Academic Publishing, ISBN: 978-613-9-47461-5, 2019.**
2. **Adnan Mohammed Hussien, Kumaran Kadirgama, Rosli Abu Bakar, D. Ramasamy, K. V. Sharma. "Heat Transfer Enhancement with Nanofluids for Automotive Cooling"., ISBN 978-3-319-29761-3, https://link.springer.com/chapter/10.1007/978-3-319-29761-3_3.**
3. **Adnan Mohammed Hussien "Combustion and Environment" NTU , 2019.**

براءات الاختراع

1. **Heat transfer enhancement for CPU cooling using nanofluid (nano-yttrium oxide-distilled water) by Adnan M. Hussein, J. A. Yagob, H.T. Ali.**
2. **Adnan M. Hussein et al., 2024. تبريد الخلايا الشمسية باستخدام مائع أوكسيد النحاس النانوي.**

البحوث العلمية المنشورة في المجلات العلمية العالمية

1. A review of forced convection heat transfer enhancement and hydrodynamic characteristics of a nanofluid. **A.M. Hussein**, K.V.Sharma, R.A.Bakar, K.Kadirgama Renewable and Sustainable Energy Reviews 29, 734-743156, 2014.
2. Study of forced convection nanofluid heat transfer in the automotive cooling system **A.M. Hussein**, R.A.Bakar, K.Kadirgama Case Studies in Thermal Engineering, 2014.
3. Heat transfer enhancement by using nanofluids in an automotive cooling system **A.M. Hussein**, K.V.Sharma, R.A.Bakar, K.Kadirgama International Communications in Heat and Mass Transfer, 2014.
4. Experimental Measurements of Nanofluids Thermal Properties

A.M. Hussein, RA Bakar, K Kadirgama, KV Sharma
International Journal of Automotive & Mechanical Engineering 7, 850-864, 2013.

5. The effect of cross sectional area of tube on friction factor and heat transfer nanofluid turbulent flow
A.M. Hussein, KV Sharma, RA Bakar, K Kadirgama
International Communications in Heat and Mass Transfer 47, 49-55, 2013.

6. The Effect of Nanofluid Volume Concentration on Heat Transfer and Friction Factor inside a Horizontal Tube
A.M. Hussein, RA Bakar, K Kadirgama, KV Sharma
Journal of Nanomaterials 2013 (Article ID 859563), 1-12, 2013.

7. Heat transfer augmentation of a car radiator using nanofluids
A.M. Hussein, RA Bakar, K Kadirgama, KV Sharma
Heat and Mass Transfer, 1-9, 2014.

8. Heat Transfer Enhancement with Nanofluids – A Review
A.M. Hussein, RA Bakar, K Kadirgama, KV Sharma
Journal of Mechanical Engineering and Sciences (JMES) 4, 452-461, 2013.

9. Heat Transfer Enhancement With Elliptical Tube Under Turbulent Flow TiO2-Water Nanofluid
A.M. Hussein, KV Sharma, RA Bakar, K Kadirgama
Thermal Science, 3-3, 2014.

10. Numerical study on turbulent forced convective heat transfer using nanofluids TiO2 in an automotive cooling system
A.M. Hussein, HK Dawood, RA Bakara, K Kadirgamaa
Case Studies in Thermal Engineering 9, 72-78, 2017.

11. Thermal performance and thermal properties of hybrid nanofluid laminar flow in a double pipe heat exchanger
A.M. Hussein
Experimental Thermal and Fluid Science 88, 37-45, 2017.

11. Simulation study of turbulent convective heat transfer enhancement in heated tube flow using TiO2 -water nanofluid
A.M. Hussein, RA Bakar, K Kadirgama, KV Sharma
International Conference on Mechanical Engineering Research, 1-8, 2013.

12. Thermophysical properties measurement of nano cellulose in ethylene glycol/water
K Ramachandran, **A.M. Hussein**, K Kadirgama, D Ramasamy, WH Azmi, ...
Applied Thermal Engineering 123, 1158-1165, 2017.

13. Nanoparticles suspended in ethylene glycol thermal properties and applications: An overview
A.M. Hussein, K Kadirgama, MM Noor
Renewable and Sustainable Energy Reviews 69, 1324-1330, 2017.

14. Latest developments in boiling critical heat flux using nanofluids: a concise review
MS Kamel, F Lezsovits, **A.M. Hussein**, O Mahian, S Wongwises
International Communications in Heat and Mass Transfer 98, 59-66, 2018.

15. Adaptive Neuro-Fuzzy Inference System of friction factor and heat transfer nanofluid turbulent flow in a heated tube
A.M. Hussein
Case Studies in Thermal Engineering 8, 94-104, 2016.

16. Heat transfer enhancement using hybrid nanoparticles in ethylene glycol through a horizontal

heated tube.
A.M. Hussein, MM Noor, K Kadirgama, D Ramasamy, MM Rahman
International Journal of Automotive & Mechanical Engineering 14 (2), 2017.

17. Thermally Developing Forced Convection in a Horizontal Equilateral Triangular Channel.
MS Mahdi, TA Tahseen, **A.M. Hussein**
Tikrit Journal of Engineering Sciences 19 (3), 58-67, 2012.

18. Hybrid nanofluid to enhance heat transfer under turbulent flow in a flat tube
SA Kaska, RA Khalefa, **A.M. Hussein**
Case Studies in Thermal Engineering 13, 100398, 2019.

19. Corrigendum to "Study of forced convection nanofluid heat transfer in the automotive cooling system"[Case Stud. Therm. Eng. 16 (2014) 50–61]
A.M. Hussein, RA Bakar, K Kadirgama
Case Studies in Thermal Engineering, 113, 2015.

20. Convection Concentric Annulus Vertical Cylinders Filling Porous Media
A.M. Hussein
kirkuk university journal for scientific studies 4 (2), 55-71, 2009.

21. The impact of humidity on performance of wind turbine
SH Danook, KJ Jassim, **A.M. Hussein**
Case Studies in Thermal Engineering, 100456, 2019.

22. Nanofluid Convective Heat Transfer Enhancement Elliptical Tube inside Circular Tube under Turbulent Flow
S Danook, Q Jasim, **A.M. Hussein**
Mathematical and Computational Applications 23 (4), 78, 2018.

23. Heat transfer enhancement of alumina nanofluid flow in a Circular tube
L Refaat, **A.M. Hussein**
Al-Kitab Journal for Pure Sciences 2 (1), 2018.

24. Palm oil based nanofluids for enhancing heat transfer and rheological properties
A.M. Hussein, K Kadirgamma, MM Noor, LK Aik
Heat and Mass Transfer 54, 3163-3169, 2018.

25. Simulation of turbulent heat transfer augmentation with hybrid nanofluid
A.M. Hussein, ji musa
Diyala journal of engineering sciences 11 (4), 28-34, 2018.

26. Friction Factor And Heat Transfer Enhancement Through A Heated Tube Under Turbulent Nanofluids Flow
A.M. Hussein, RA Bakara, K Kadirgamaa, KV Sharmaa
International Conference of Energy, THAILAND, 2013.

27. A Theoretical Study Of Laminar Free Convection Through Porous Trombe Wall With Passive Solar Energy
A.M. Hussein
Al-Tachani 21 (1), 140-150, 2008.

28. A Theoretical And Experimental Study Of Heat Transfer Through Sand Mould When Pouring The Cast Iron
A.M. Hussein, A Jasim
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29. An Experimental And Numerical Study Of Mixed Convection Through Porous Medium Between Inclined Two Plates

A.M. Hussein
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30. Thermal Behavior of Flat plate solar collector.
A.M. Hussein
The First International Conference for Engineering Researches - March 2017.
31. Reverse Osmosis of Groundwater Desalination Quality: Case Study North of Iraq.
A.M. Hussein
The First International Conference for Engineering Researches - March 2017.
32. Improve the efficiency of the solar collector and the solar heater using a channel filled with nanofluid.
Sahar Shaheen, **A.M. Hussein**.
Al-Kitab Journal for Pure Science, Issue 1, Volume 2, October 2018
33. Heat transfer enhancement of alumina nanofluid flow in a Circular tube
L. Refaat, **A.M. Hussein**
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34. Heat transfer augmentation for the car radiator by using nanofluid.
A.M. Hussein, R. A. Bakar, K. Kadirgama, G.L. Ming.
International Journal of Advancements in Mechanical and Aeronautical Engineering, 1(2),2019.
35. The Impact of Alumina Nanoparticles Suspended in Water Flowing in A Flat Solar Collector. (ARFMTS19-095)
Zainab Ali Ibrahim, Qusay Kamil Jasim, **A.M. Hussein**.
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36. Thermal Conductivity and Viscosity Measurement of Zno Nanoparticles Dispersing in Various Base Fluids. (ARFMTS19-083).
Kafel Azeez, Zainab Ali Ibrahim, **A.M. Hussein.**
Journal of Advanced Research in Fluid Mechanics and Thermal Sciences 66(2), (2020) 1-10.
37. Efficiency Analysis of TiO2/Water Nanofluid In Trough Solar Collector.
(ARFMTS19-217)
Suad Hassan Danook, Khamis J. Jassim, **A.M. Hussein**
J. of Advanced Research in Fluid Mechanics and Thermal Sciences 67(1), (2020) 178-185.