Dr. Mohammed Hassan Jabal.....

Professor

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1) Biography:

Dr. Jabal was awarded his B.Sc & M.Sc degrees **Mechanical Engineering** from the University of Technology- Iraq in **1998 and 2000**, respectively. He gained his PH.D degree in **Mechanical Engineering from University of Technology Malaysia** (UTM), **Malaysia in 2016**. He is Manager of the Scientific Affairs Department/ Vice President of the University for Scientific & Post Graduate Affairs Office, University of Technology- Iraq.

2) Education

B.Sc degree in Mechanical Engineering, University of Technology- Iraq, 1998.M.Sc degree in Mechanical Engineering, University of Technology- Iraq, 2000.PH.D degree in Mechanical Engineering, University of Technology Malaysia (UTM), 2016.

3) Research interest: Thermofluids, Renewable Energy, Hydraulic and Pneumatic Energy, Bio-lubricant engineering, Biomass

4) Publications:

1. Mohammed Hassan Jabal, Abdulmunem R Abdulmunem, Hussain Saad Abd, (2020), Numerical investigation of mixture generation due to different inlet and outlet positions, International Journal of Low-Carbon Technologies. Oxford University Press. .(Clarivate IF= 2.455).

2. Mohammed Hassan Jabal, Abdulmunem R Abdulmunem, Hussain Saad Abd, (2019), Experimental investigation of tribological characteristics and emissions of non-edible sunflower oil as a bio-lubricant, Journal of the Air & Waste Management Association.(Clarivate IF= 1.743).

3. Mohammed Hassan Jabal, Farid Nasir Ani and S. Syahrullail, (2015), Tribological Features Of Refined, Deodorized And Bleached Palm Olein With Mineral Oil Blend, Journal of Tribology Transactions.(Clarivate IF= 1.349).

4. Mohammed Hassan Jabal, Farid Nasir Ani and S. Syahrullail, (2016), Tribological Performance Evaluation of Jatropha Oil Blends, Journal of Industrial Lubrication and Tribology.(Clarivate IF= 0.444).

5. Mohammed Hassan Jabal, Farid Nasir Ani and S. Syahrullail, (2016), Tribological Performance Evaluation of RBD Palm Olein Blends, Journal of Oil Palm Research. (Clarivate IF= 0.321).

6. R. Abdulmunem, Mohammed Hassan Jabal and Hashim A. Hussien, (2019), Analysis of Energy and Exergy for the Flat Plate Solar Air Collector with Longitudinal Fins Embedded in Paraffin Wax Located in Baghdad Center, International Journal of Heat and Technology.(Clarivate IF= 1.051).

7. Hussain Saad Abd ,R. Abdulmunem and Mohammed Hassan Jabal, (2019), Numerical investigation of mixture generation due to different inlet and outlet positions, International Journal of Low-Carbon Technologies.(Clarivate IF= 1.054).

8. AH Abed, HA Hosh, Mohammed Hassan Jabal, (2021), Experimental investigation of modified solar still coupled with high-frequency ultrasonic vaporizer and phase change material capsules., Case Studies in Thermal Engineering 28, 101531. (Clarivate IF= 6.4)

9. Sultan, K. F., Mohammed Hassan Jabal, M. H., & Jaddoa, A. A, (2021), Performance Assessment of the Heat Exchanger with and without a Coating of Hybrid Nanoparticles the User Cooling System in Solar Heating Systems., International Journal of Heat & Technology 39 (5). (Clarivate IF= 0.7)

10. Sultan, K. F., Mohammed Hassan Jabal, M. H., & Jaddoa, A. A (2021), Energetic and Exergetic Assessment of Spiral Heat Exchanger Using Mineral and Oxide Mineral Oil Nanofluid Energetic and Exergetic Assessment of Spiral Heat Exchanger Using Mineral and Oxide Mineral Oil Nanofluid, International Journal of Heat and Technology 39 (2).(Clarivate IF= 0.7)

11. AH Abed, Mohammed Hassan Jabal, Ayad K. Khlief, (2021), Experimental Investigation on Mist Flow and Heat Transfer in a Uniformly Heated Vertical Cylinder., International Journal of Heat and Technology 39 (6), 1835-1844. (Clarivate IF= 0.7)

12. Mohammed Hassan Jabal, Abdulmunem R Abdulmunem, Hussain Saad Abd, (2021), As A Potential Hydraulic Fluid: Corn Oil Behavior Characteristics Examination, Journal of Thermal Engineering.

13. DJ Ibrahim , Mohammed Hassan Jabal, SJ Ismael, (2024), Thermal performance characteristics of sunflower seed oil as a renewable bio fluid., AIP Conference Proceedings 3002 (1).

14. FN Abdul Fattah, MA Mohd Ariff, J Mohammed Hassan, A Farid Nasir, (2017), The Tribological Characteristics Of Rubber Seed Oil With Mineral Oil Blends, Malaysian journal of industrial technology (MJIT).

15. FJ Saweecht, SJ Ismael, Mohammed Hassan Jabal, (2024), Implement a water pumps intelligent controller for industrial applications., AIP Conference Proceedings 3002 (1).

16. Mohammed Hassan Jabal, Enaam Obaid Hassoun, Abdulmunem R. Abdulmunem and Farid Nasir Ani, (2019), Experimental Investigation Of The Neat Rubber Seed Oil As A Hydraulic Fluid Using Four-Ball Tribotester, Journal of Engineering Science and Technology.

17. FJ Saweecht, Mohammed Hassan Jabal, SJ Ismael, (2024), Performance characteristics a photovoltaic liquid pumping system under various operation conditions., AIP Conference Proceedings 3002 (1).

18. Mohammed Hassan Jabal, Farid Nasir Ani and S. Syahrullail, (2016), The Tribological Characteristics of The Cactus And Mineral Base Oil Blends Using Four-Ball Tribotester, Jurnal Teknologi (Sciences & Engineering).

19. DJ Ibraheem, SJ Ismail,Mohammed Hassan Jabal,(2024), Thermal performance features of the bio-pumping unit with automatic controller based on neural network., AIP Conference Proceedings 3002 (1).

20. Mohammed Hassan Jabal, AA Khudhair, FN Ani, (2022), Thermal characteristic of corn fluid blends as renewable bio-fluid., AIP Conference Proceedings 2415.

21. AA Khudhair, Mohammed Hassan Jabal, SJ Ismeal , (2022), Cooling performance characteristics of corn oil as a renewable-bio oil in electric transformer., AIP Conference Proceedings 2415.

22. SJI ,Ahmed A. Khudhair , Mohammed Hassan Jabal, (2022), Corn Oil Performance's A Bio Cooling Fluid in Electric Distribution Transformer., Engineering and Technology Journal 40 (1), 20-30.

23. Mohammed Hassan Jabal, Farid Nasir Ani and S. Syahrullail, (2015), The Tribological Characteristics of Castor Oil with Mineral Oil Blends, Jurnal Teknologi (Sciences & Engineering). 24. Ahmad Hussain, Syed Murtuza , Amjad, Muhammad Adeel, Mohammed Hassan Jabal, Farid Nasir Ani (2018),Investigation of Tribological Characteristics of Castor Oil with Mineral Oil Blends, journal of engineering and applied sciences.

25. Mohammed Hassan Jabal, Farid Nasir Ani and S. Syahrullail, (2016), Tribological Evaluation of Cactus With Mineral Oil Blend Using Four-Ball Tribotester With Different Normal Loads, Jurnal Teknologi (Sciences & Engineering).

26. Mohammed Hassan Jabal, Farid Nasir Ani and S. Syahrullail, (2014), The Tribologi Characteristic of The Blend of RBD Palm Olein With Mineral Oil Using Four-Ball Tribotester, Jurnal Teknologi (Sciences & Engineering), 69(6): 11-14.

27. Abdulmunem R. Abdulmunem, Mohammed Hassan Jabal, Muhannad Zedan Khlefia,(2018),Modeling Study Of PV Power Plants In Different Iraq's Governorates, The Iraqi Journal For Mechanical And Material Engineering.

28. Mohammed Hassan Jabal, Muhannad Zaidan Khalefa, (2018), Tribological Characteristics Evaluation of Mustard Oil Blends, Journal of Engineering, 24(3),1-12.

29. Mohammed Hassan Jabal, Farid Nasir Ani and S. Syahrullail, (2016), The Tribological Characteristics of RBD Palm Olein With Jatropha Oil Blend Using Four-Ball Tribotester With Different Normal Loads, Applied Mechanics and Materials, 819: 499-503.

30. Ibtisam Ahmed Hassan, Mohammed Hassan Jabal and Amir Abd Jadou, (2011), Performance Changes For Window Type Air-Conditioner Unit Chemically Treated To Work In An Industrial Petrochemical Environment, Engineering & Technology Journal, 29(9): 430-447.

31. Mohammed Hassan Jabal , (2009), Performance and Design Changes Accompanying the Replacing of an Old Cooling fluid(R12) with One which is Safe on the Ozone Layer (R134a) in the Cooling System of a Small Water Cooler, Engineering & Technology Journal, 27(11).

4) Teaching:

Heat Transfer

Engineering Mechanics Refrigeration and Air Conditioning Thermodynamic Renewable energy Strength of material

5) Honors, Awards & Recognition Letters:

- Best Performance, Recognition Letter, President of the University of Technology, 2011.
- Recognition Letter, President of the University of Technology, 2012.
- Recognition Letter, President of the University of Technology, 2017.
- Recognition Letter, President of the University of Technology, 2018.
- Recognition Letter, President of the University of Technology, 2019.
- Recognition Letter, President of the University of Technology, 2020.
- Recognition Letter, President of the University of Technology, 2021.
- Recognition Letter, President of the University of Technology, 2022.
- Recognition Letter, President of the University of Technology, 2023.
- Recognition Letter, President of the University of Technology, 2024.
- Recognition Letter, President of the University of Technology, 2025.

6) Academic Profiles Links:

•GoogleScholar:

https://scholar.google.com/citations?user=60IO1hwAAAAJ&hl=en

• ResearchGate:

https://www.researchgate.net/profile/Mohammed-Hassan-70?ev=hdr_xprf

•Orcid: https://orcid.org/0000-0001-5774-5212

•Web of Science: https://www.webofscience.com/wos/author/record/N-9864-2019

•Scopus: https://www.scopus.com/authid/detail.uri?authorId=56275771900