

Mohammed G Muhssen Al-Azawy

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Assistant Professor

CONTACT

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EDUCATION

(01-06-2016) دكتوراه
Mechanical Engineering
The University of Manchester

RESEARCH METRICS

h-index (Scopus)	7
h-index (GS)	8
Citations (Scopus)	146
Citations (GS)	402
Documents (Scopus)	12
Documents (GS)	26

RESEARCH INTERESTS

• Fluid Mechanics, Bio-Fluid Mechanics

ACADEMIC TITLES

2021-12-26 Assistant Professor

COURSES

• Engineering Analysis
• Numerical Analysis
• Fluid Mechanics 1
• Fluid Mechanics2

ADMINISTRATIVE POSITIONS

2025-02-12 - Present Dean Assistant of Scientific affairs and Postgrads

2017-01-01 - 2025-02-11 Department Coordinator

PUBLICATIONS (26)

1. **Numerical Study of Heat Transfer on using Metal Foam and Nanofluid in Double Pipe Heat Exchanger**
CFD letters, 152-172, 2025 | 2025 | Cited: 2

2. **Thermal Performance Assessment of a Double-Pipe Heat Exchanger Utilizing Metal Foam and Nanofluids Oxide**
Wasit Journal of Engineering Sciences 13 (3), 13-24, 2025 | 2025 | Cited: 2

3. **Thermal Performance Assessment of a Double-Pipe Heat Exchanger Utilizing Metal Foam and Nanofluids**
Wasit Journal of Engineering Sciences 13 (3), 13-24, 2025 | 2025 | Cited: 1

4. **Experimental Assessment of the Aerodynamics of a Slotted Wavy Blade**
Wasit Journal of Engineering Sciences 12 (3), 109-119, 2024 | 2024

5. **Investigating the impact of flow rate and moisture content for different concentration of liquid desiccant solution**
Wasit Journal of Engineering Sciences 11 (1), 75-83, 2023 | 2023

6. **A Numerical Method for Reviewing Studies on the Flow of Blood through Human Coronary Arteries**
Journal of Optoelectronics Laser 41 (10), 319-327, 2022 | 2022

7. **Thermal and flow analysis of different shaped pin fins for improved heat transfer rate**
International Journal of Heat and Technology 40 (1), 201-210, 2022 | 2022 | Cited: 14

8. **Non-invasive evaluation of blood flow through a healthy and stenosed coronary artery**
Wasit Journal of Engineering Sciences 10 (3), 58-74, 2022 | 2022 | Cited: 1

9. **Evaluate the hemodynamic factors' effects on stenosed arteries with the Carreau model**
2022

10. **Experimental Investigation of Thermal Performance Parameters of Drying Air Unit with a Different Flowrate of Liquid Desiccant Solution.**
International Journal of Heat & Technology 40 (3), 2022 | 2022 | Cited: 1

11. **Evaluation of Turbulence and Non-Newtonian Blood Rheology Models Through An FDA Nozzle**
2021 International Conference on Advance of Sustainable Engineering and its ..., 2021 | 2021 | Cited: 3

12. **Determination of Point of Zero Charge (PZC) of Concrete Particles Adsorbents**
IOP Conference Series: Materials Science and Engineering 1184 (1), 012004, 2021 | 2021 | Cited: 202

13. **The Influence of Non-Newtonian Model on Properties of Blood Flow Through a Left Coronary Artery with Presence of Different Double Stenosis.**
International Journal of Heat & Technology 39 (3), 2021 | 2021 | Cited: 15

14. **Effect of Wall Heat Transfer on the Fluidization Process**
International Journal of Heat and Technology 39 (2), 615-620, 2021 | 2021 | Cited: 3

15. **Concrete particles for fluoride removal using continued fixed-bed and fluidized-bed systems**
IOP Conference Series: Materials Science and Engineering 1184 (1), 012005, 2021 | 2021 | Cited: 2

16. **Study of the effect of particle diameters on two-phase (air-solid) fluidization bed hydrodynamics**
Materials Today: Proceedings 42, 2113-2118, 2021 | 2021 | Cited: 2

17. **Evaluating the effect of non-Newtonian turbulent blood models within a double-stenosed artery**
Wasit Journal of Engineering Sciences 9 (2), 9-19, 2021 | 2021

18. **Newtonian and non-newtonian blood rheology inside a model of stenosis. CFD Letters, 12 (11), 27–36**
2020 | Cited: 5

19. **Redesign the front shape of the sedan car for pedestrian safety and mitigating leg injuries at accidents**
International Journal of Safety and Security Engineering 10 (6), 747-752, 2020 | 2020 | Cited: 4

20. **Newtonian and Non-Newtonian Blood Rheology Inside a Model of Stenosis**
CFD Letters 12 (11), 27-36, 2020 | 2020 | Cited: 27

21. **Investigating the impact of non-Newtonian blood models within a heart pump**
International Journal for Numerical Methods in Biomedical Engineering | 2017 | Cited: 60

22. **Assessment of turbulence models for pulsatile flow inside a heart pump**
Computer methods in biomechanics and biomedical engineering 19 (3), 271-285, 2016 | 2016 | Cited: 45

23. **An Overset mesh approach for valve closure: An LVAD application**
BIODEVICES 2016 - 9th International Conference on Biomedical Electronics and Devices, Proceedings; Part of 9th International Joint Conference on Biomedical Engineering Systems and Technologies, BIOSTEC 2016 | 2016 | Cited: 12

24. **Investigating the use of turbulence models for flow investigations in a positive displacement ventricular assist device**
6th European Conference of the International Federation for Medical and ..., 2015 | 2015 | Cited: 11

25. **Effect of Wall Heat Transfer on the Fluidization Process Effect of Wall Heat Transfer on the Fluidization Process**
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26. **PCM-metal foam composite as an effective means of latent heat thermal energy storage (LHTES)**
0 | Cited: 3