



Ansam Adil Mohammed

انسام عادل محمد عباس الزبيدي

Assistant Professor

PROFILE

Ansam Adil Mohammed is an active and dedicated researcher whose scholarly contributions have made a notable impact within the academic community. Demonstrating a strong commitment to advancing knowledge and fostering academic discourse, Mohammed has compiled a robust portfolio of peer-reviewed work. To date, this scholarly output includes 38 publications indexed on Google Scholar, reflecting a consistent dedication to rigorous investigation and academic inquiry.

Mohammed's research has garnered significant recognition from peers globally, accumulating 234 citations and achieving an h-index of 11. These metrics underscore the relevance, quality, and utility of their work in driving forward contemporary academic discussions. Known for a disciplined approach to research and a commitment to high-quality scholarship, Mohammed continues to contribute actively to the broader scientific and academic landscape, fostering collaborative growth and innovation through ongoing intellectual endeavors.

ACADEMIC TITLES

2022-01-03 Assistant Professor

TEACHING EXPERIENCE

Teaching

Al-Nahrain University - College of Engineering - Department of Mechanical Engineering

0001-04 - Present

COURSES

- I Fluid (MEER212)
- Fluid II (MEER222)
- Engineering and Numerical Analysis I (MEER310)
- Engineering and Numerical AnalysisII (MEER320)
- Research methodology
- Research methodology
- Research methodology
- modeling of fluid and thermal system
- modeling of fluid and thermal system

ADMINISTRATIVE POSITIONS

2001-06-01 - Present Teaching

PUBLICATIONS (4 4)

CONTACT

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EDUCATION

دكتوراه (01-09-2006)

Mechanical Engineering

Al- Nahrain

ماجستير (01-09-1999)

Mechanical Engineering - Thermal Power

Al- Nahrain

بكالوريوس (01-09-1997)

Mechanical Engineering - General

Al- Nahrain

RESEARCH METRICS

h-index (Scopus)	10
h-index (GS)	11
Citations (Scopus)	208
Citations (GS)	247
Documents (Scopus)	26
Documents (GS)	38

PATENTS

- Improved heat transfer with a tube equipped with a rotating twisted strip

RESEARCH INTERESTS

- My research interests encompass all areas of mechanical engineering.



1. **Numerical and Experimental Modeling of a Low-Cost Square Pyramid Solar Still in Baghdad**
Heat Transfer, 2026 | 2026 | Cited: 3
2. **Influence of air distributors on heat transfer and hydrodynamic performance in fluidized bed heat exchangers**
Thermal Science 30 (18), 731-742, 2026 | 2026 | Cited: 4
3. **Experiment investigating the effect of ZnO nano-particles on diesel engine performance and emissions**
Advances in Science and Technology Research Journal | 2026 | Cited: 4
4. **A review study on cooling techniques for photovoltaic/thermal (PV/T) and a comparison between them**
Thermal Science, 55-55, 2026 | 2026
5. **Conjugate thermo-hydraulic optimization of a zigzag microchannel heat sink using advanced nanofluid coolants**
Thermal Science, 99-99, 2026 | 2026
6. **Mathematical Model to Predict Vibration Behavior of LM6000 Gas Turbines at Musayyib Thermal Power Plant Under Variable Operating Conditions**
International Journal of Heat and Technology 44 (1), 395-410, 2026 | 2026
7. **PASSIVE HEAT TRANSFER ENHANCEMENT TECHNIQUES IN FLAT-PLATE SOLAR COLLECTORS: A COMPREHENSIVE**
THE IRAQI JOURNAL FOR MECHANICAL AND MATERIALS ENGINEERING 25 (1), 98-130, 2026 | 2026
8. **An experimental comparative study of the mechanical properties of synthetic carbon/glass fiber composites and natural palm fibers for automotive hood applications**
Samarra Journal of Engineering Science and Research 4 (2), 35-48, 2026 | 2026
9. **Numerical investigation of thermal performance in a solar air heater using triangular fins**
Advances in Science and Technology. Research Journal 20 (8), 2026 | 2026
10. **Experiment investigating the effect of ZnO nano-particles on diesel engine performance and emissions**
Advances in Science and Technology Research Journal 20 (1), 491–500, 2025 | 2025 | Cited: 4
11. **Study of prototypes for biofuel production Extraction from biodegradation in oxygen-free environments Processing Wastewater**
Solar Energy and Sustainable Development Journal 14 (1), 522-539, 2025 | 2025 | Cited: 7
12. **A Review on the Effect of Y-Shaped Twisted Tape on Heat Exchanger Performance**
Al-Nahrain Journal for Engineering Sciences NJES 28 (1), 138-151, 2025 | 2025 | Cited: 6
13. **Numerical Investigation for Y-Shaped Twisted Inserts With Trapezoidal Perforations in Heat Exchangers**
Heat Transfer | 2025 | Cited: 6
14. **Influence of air distributors on heat transfer and hydrodynamic performance in fluidized bed heat exchangers**
Thermal Science | 2025 | Cited: 4
15. **Constructal design of cross-flow heat exchanger with concave/convex fins**
Heat Transfer 54 (1), 21-40, 2025 | 2025 | Cited: 11
16. **Effect of Nanoparticles Flow to Improve the Oil Refineries Wastewater**
INTERNATIONAL REVIEW 18 (7), 351, 2024 | 2024 | Cited: 4
17. **Constructal design of cross-flow heat exchanger with concave/convex fins**
Heat Transfer | 2024 | Cited: 11
18. **Numerical Investigation of Thermal Performance for Turbulent Water Flow through Dimpled Pipe**
CFD Letters | 2024 | Cited: 11
19. **Relative exergy and energy analysis of DI-CI engine fueled with higher blend of Azadirachta indica biofuel with n-butanol and NiO as fuel additives**
Environmental Progress & Sustainable Energy 43 (3), e14336, 2024 | 2024 | Cited: 28
20. **Geothermal Energy Development in Türkiye: A Review**
Al-Nahrain Journal for Engineering Sciences NJES 27 (2), 207-225, 2024 | 2024 | Cited: 6

21. **Numerical Investigation of Triangular Y-Shaped Cut Twisted Stripe Insertion on Improving the Performance of Heat Exchangers**
Journal of Advanced Research in Fluid Mechanics and Thermal Sciences 124 (2 ... 2024 | 2024 | Cited: 5
22. **Experimental Investigation into Natural Convection Heat Transfer inside Triangular Enclosure with Internal Hot Cylinder**
Al-Nahrain Journal for Engineering Sciences NJES 3 (26), 175-185, 2023 | 2023 | Cited: 12
23. **Relative exergy and energy analysis of <scp>DI-Cl</scp> engine fueled with higher blend of <i>Azadirachta indica</i> biofuel with <scp>n-butanol</scp> and <scp>NiO</scp> as fuel additives**
Environmental Progress & Sustainable Energy | 2023
24. **Characteristics of Flow-Induced Vibration of Conveying Pipes for Water and Coolant Flow**
Journal of Advanced Research in Fluid Mechanics and Thermal Sciences | 2023 | Cited: 10
25. **Flow Induced Vibration for Different Support Pipe and Liquids: A review**
Al-Nahrain Journal for Engineering Sciences 26 (2), 83-95, 2023 | 2023 | Cited: 5
26. **Effect of inserting 10-PPI copper foam as a porous absorber on the solar cooker performance**
International Journal of Advanced Technology and Engineering Exploration ... 2023 | 2023 | Cited: 16
27. **Numerical study of convection air currents around a hot cylinder inside a triangular cavity**
Al-Nahrain Journal for Engineering Sciences 26 (2), 102-115, 2023 | 2023 | Cited: 13
28. **Investigation of the thermal performance for a square duct with screwtape and twisted tape numerically**
International Journal of Mechanical Engineering 7 (No. 1), 685-688, 2022 | 2022 | Cited: 12
29. **Experimental units for biogas production from anaerobic digestion - review**
International Journal of Latest Engineering and Management Research (IJLEMR ... 2022 | 2022
30. **Investigation the Effect of Different Vortex Generator Types on The Aerodynamic Characteristics of Airfoil**
Al Nahrain University / College of Engineering / Mechanical Department, 2022 | 2022
31. **Investigation the effect of various vortex generator types at different velocities and angles of attack in NACA 2412 Airfoil on lift and drag coefficient**
International Journal of Latest Engineering and Management Research (IJLEMR) | 2022
32. **Optimizing the size for Solar Parabolic Trough Concentrator numerically**
International Journal of Mechanical Engineering 7 (1), 610-615, 2022 | 2022 | Cited: 11
33. **Investigation the effect of various vortex generator types at different velocities and angles of attack in NACA 2412 Airfoil on lift and drag coefficients**
2022 | Cited: 1
34. **Improved heat transfer with rotary torsion bar tube**
2021
35. **Heat Transfer Enhancement in a Horizontal Tube Using Rotating Twisted Tape Insert**
Al Nahrain University / College of Engineering / Mechanical Department, 2020 | 2020
36. **Heat Transfer Augmentation in Tube Fitted with Rotating Twisted Tape Insert**
Journal of Mechanical Engineering Research and Developments 43 (No.7), pp ... 2020 | 2020 | Cited: 14
37. **Heat transfer augmentation in an inclined tube using perforated conical ring inserts**
Journal of Mechanical Engineering Research and Developments 43 (No. 5), pp ... 2020 | 2020 | Cited: 12
38. **Laminar Natural convective heat transfer around a circular cylinder inside a concentric air-filled inclined triangular enclosure**
Al Nahrain University / College of Engineering / Mechanical Department, 2020 | 2020
39. **Experimental Investigation for The Flow Induced Vibration for Pipe Inside Water**
Al-Nahrain Journal for Engineering Sciences 23 (1), 61-67, 2020 | 2020 | Cited: 7
40. **The Effect Of Induced Vibration On Laminar Fluid Flow Of Fixed Ends Pipes**
Al Nahrain University / College of Engineering / Mechanical Department, 2019 | 2019
41. **THE OPTIMAL SPACING BETWEEN DIAMOND-SHAPED TUBES COOLED BY FREE CONVECTION USING CONSTRUCTAL THEORY**
THE PUBLISHING HOUSE PROCEEDINGS OF THE ROMANIAN ACADEMY, pp. 129–134, 2018 | 2018 | Cited: 23

42. **Performance of ice storage system utilizing a combined partial and full storage strategy**
Desalination 209 (1-3), 306-311, 2007 | 2007 | Cited: 13
43. **The effect of induced vibration on the flow properties in a pipe fitted with an orifice**
PhD / Al-Nahrain University / College of Engineering / Mechanical department, 2006 | 2006 | Cited: 3
44. **Performance of ice storage system utilizing a combined partial and full storage strategy**
1999