

## Prof. HABİB UMUR

### Personal Information

**Email:** umur@uludag.edu.tr

**Web:** <https://avesis.uludag.edu.tr/umur>

### International Researcher IDs

ORCID: 0000-0002-8732-5283

Yoksis Researcher ID: 4780

### Education Information

Doctorate, Imperial College of Science, Technology and Medicine, Mech: Eng. Dept., Thermofluids Section, United Kingdom 1987 - 1991

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey 1983 - 1986

Undergraduate, Karadeniz Technical University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği Pr., Turkey 1978 - 1983

### Foreign Languages

English, C1 Advanced

### Academic Titles / Tasks

Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 2001 - Continues

Associate Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 1995 - 2001

Assistant Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 1992 - 1995

Research Assistant, Imperial College of Science, Technology and Medicine, Engineering , Mechanical Engineering, 1987 - 1991

Research Assistant, Cukurova University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 1985 - 1986

### Advising Theses

UMUR H., Thermal analysis of multi-chip and variable section electronic systems, Postgraduate, M.Emre(Student), 2020

UMUR H., An investigation of flow around an infinite cylinder, Postgraduate, A.Nurper(Student), 2019

UMUR H., Numerical analysis of aerodynamic structure of different vehicle models, Postgraduate, T.Gizem(Student), 2019

UMUR H., Experimental and numerical aerodynamic analysis of a passenger car, Doctorate, A.ALTIŇIŞIK(Student), 2013

UMUR H., Flow and heat characteristics around vertical cylinders in the turbulent boundary layer, Doctorate, Z.ABİDİN(Student), 2010

UMUR H., Flow and heat transfer characteristics over multiple blocked flat surfaces, Doctorate, O.YEMENİCİ(Student), 2010

UMUR H., Investigation of thermal and hydrodynamic boundary layer flows, Postgraduate, O.SEÇKİN(Student), 2004

UMUR H., Vortex effects on heat transfer over flat plates, Postgraduate, A.SAKİN(Student), 2004

UMUR H., Computational investigation of the performance of an automobile exhaust system, Postgraduate,

A.İBRAHİM(Student), 2001

UMUR H., Investigation of velocity and heat transfer characteristics in accelerating and decelerating concave, flat and convex surface boundary layers, Doctorate, A.ALPER(Student), 2001

UMUR H., Emission reduction methods on modern vehicle technologies, Postgraduate, M.AYHANER(Student), 2000

## **Published journal articles indexed by SCI, SSCI, and AHCI**

- I. **Experimental and numerical investigation of the effect of horseshoe vortex legs on heat characteristics of the downstream region of a circular cylinder-wall junction**  
Firatoglu Z. A., Yemenici O., UMUR H.  
International Journal of Heat and Mass Transfer, vol.180, 2021 (SCI-Expanded)
- II. **Flow and heat transfer characteristics over rectangular blocked surfaces**  
Umur H., Yemenici O., Umur Y., Sakin A.  
EXPERIMENTAL HEAT TRANSFER, vol.30, no.3, pp.192-204, 2017 (SCI-Expanded)
- III. **Experimental Aspects of Heat Transfer Enhancement over Various Flow Surfaces**  
YEMENİCİ O., UMUR H.  
HEAT TRANSFER ENGINEERING, vol.37, no.5, pp.435-442, 2016 (SCI-Expanded)
- IV. **Aerodynamic Analysis of a Passenger Car at Yaw Angle and Two-Vehicle Platoon**  
Altinisik A., YEMENİCİ O., UMUR H.  
JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, vol.137, no.12, 2015 (SCI-Expanded)
- V. **Experimental and Numerical Aerodynamic Analysis of a Passenger Car: Influence of the Blockage Ratio on Drag Coefficient**  
Altinisik A., Kutukceken E., UMUR H.  
JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, vol.137, no.8, 2015 (SCI-Expanded)
- VI. **An experimental investigation of flow and heat transfer characteristics over blocked surfaces in laminar and turbulent flows**  
Yemenici O., Firatoglu Z. A., Umur H.  
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.55, no.13-14, pp.3641-3649, 2012 (SCI-Expanded)
- VII. **Fluid flow and heat transfer in transitional boundary layers: effects of surface curvature and free stream velocity**  
Umur H., Ozalp A. A.  
HEAT AND MASS TRANSFER, vol.43, no.1, pp.7-15, 2006 (SCI-Expanded)
- VIII. **Optimum surface profile design and performance evaluation of inclined slider bearings**  
Ozalp A. A., Umur H.  
CURRENT SCIENCE, vol.90, no.11, pp.1480-1491, 2006 (SCI-Expanded)
- IX. **Laminar and turbulent forced convection in accelerating and decelerating curved flows**  
Umur H., Ozalp A. A.  
CURRENT SCIENCE, vol.87, no.9, pp.1237-1244, 2004 (SCI-Expanded)
- X. **An experimental investigation of the combined effects of surface curvature and streamwise pressure gradients both in laminar and turbulent flows**  
Ozalp A. A., Umur H.  
HEAT AND MASS TRANSFER, vol.39, no.10, pp.869-876, 2003 (SCI-Expanded)
- XI. **Flow and heat transfer measurements in laminar and turbulent convex surface boundary layers**  
Ozalp A. A., Umur H.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.29, no.6, pp.841-851, 2002 (SCI-Expanded)
- XII. **Determination of resistance coefficient and turbulent friction factor in non-circular ducts**  
Umur H.  
JSME INTERNATIONAL JOURNAL SERIES B-FLUIDS AND THERMAL ENGINEERING, vol.43, no.2, pp.136-142, 2000 (SCI-Expanded)

- XIII. **Flow and heat transfer with pressure gradients, Reynolds number and surface curvature**  
Umur H.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.27, no.3, pp.397-406, 2000 (SCI-Expanded)
- XIV. **An investigation of external flows with various pressures and surfaces**  
Umur H., Karagoz İ.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.26, no.3, pp.411-419, 1999 (SCI-Expanded)
- XV. **ACCELERATION AND INJECTION EFFECTS ON LONGITUDINAL VORTICES IN CONCAVE WALL BOUNDARY-LAYERS**  
UMUR H., CRANE R., WHITELAW J.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.209, no.1, pp.1-10, 1995 (SCI-Expanded)
- XVI. **CONCAVE WALL HEAT-TRANSFER CHARACTERISTICS WITH LONGITUDINAL PRESSURE-GRADIENTS AND DISCRETE WALL JETS**  
UMUR H.  
JSME INTERNATIONAL JOURNAL SERIES B-FLUIDS AND THERMAL ENGINEERING, vol.37, no.2, pp.403-412, 1994 (SCI-Expanded)
- XVII. **FLOW OF NEWTONIAN AND NON-NEWTONIAN FLUIDS IN CONCENTRIC AND ECCENTRIC ANNULI**  
NOURI J., UMUR H., WHITELAW J.  
JOURNAL OF FLUID MECHANICS, vol.253, pp.617-641, 1993 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Thermal characteristics of turbulent flows under the effects of rib curvature and Reynolds number**  
YEMENİCİ O., UMUR H.  
INTERNATIONAL JOURNAL OF ADVANCES IN ENGINEERING TECHNOLOGY, 2013 (Peer-Reviewed Journal)
- II. **Velocity turbulent intensity and pressure measurements in turbulent separated and curved flows**  
YEMENİCİ O., UMUR H.  
INTERNATIONAL JOURNAL OF ENGINEERING AND ADVANCED TECHNOLOGY, 2013 (Peer-Reviewed Journal)
- III. **Heat transfer analysis of laminar flows over concave convex and ribbed surfaces**  
YEMENİCİ O., UMUR H.  
INTERNATIONAL JOURNAL ON HEAT AND MASS TRANSFER – THEORY AND APPLICATIONS, 2013 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Yüzey geometrisinin enerji verimliliğine etkisi**  
YEMENİCİ O., FIRATOĞLU Z. A., UMUR H.  
GAPYENEV, Turkey, 10 - 12 May 2018
- II. **Çalışma basıncının fan tipi bir sulama memesinin performansına etkisinin nümerik araştırılması**  
CAN A., MEYVACI D., FIRATOĞLU Z. A., YEMENİCİ O., UMUR H.  
GAPYENEV, Turkey, 10 - 12 May 2018
- III. **Effect of surface geometry on energy efficiency**  
YEMENİCİ O., FIRATOĞLU Z. A., UMUR H.  
GAPYENEV, Şanlıurfa, Turkey, 10 - 12 May 2018
- IV. **Hava tüneli blokaj etkisinin otomobil aerodinamiğine etkileri**  
UMUR H., Altınışık A.  
OTEKON, Bursa, Turkey, 7 - 08 May 2018

- V. **Yanal rüzgar durumunda otomobil aerodinamiği**  
Altınışik A., UMUR H.  
OTEKON, Bursa, Turkey, 7 - 08 May 2018
- VI. **Birbirini takıp eden iki otomobil aerodinamiği**  
Altınışik A., UMUR Y., UMUR H.  
OTEKON, Bursa, Turkey, 7 - 08 May 2018
- VII. **Gerçek Araç modeli üzerinde deneysel ve sayısal aerodinamik analizler**  
ALTINIŞIK A., KÜÇÜKÇEKEN E., YEMENİCİ O., UMUR H.  
7. Otomotiv Teknolojileri Kongresi, Turkey, 26 - 27 May 2014
- VIII. **Concave surface velocity and heat transfer measurements in accelerating and decelerating boundary layers**  
ÖZALP A. A., YEMENİCİ O., UMUR H.  
1st Int. Exergy, Energy and Environment Symposium, 13 - 17 July 2003
- IX. **A numerical solution for acoustic performance prediction of an automobile exhaust system**  
Oge A., Umur H.  
2nd Trabzon International Energy and Environment Symposium, Trabzon, Turkey, 26 - 29 July 1998, pp.553-557
- X. **Newtonian and non-Newtonian laminar, transitional and turbulent flows with eccentricity of unity**  
Umur H., Ozalp A. A.  
2nd Trabzon International Energy and Environment Symposium, Trabzon, Turkey, 26 - 29 July 1998, pp.391-395
- XI. **Kanallarda Sinüsoidal Akışta Konvektif Isı Transferi**  
KARAGÖZ İ., UMUR H., PULAT E.  
ULIBTK'97 11. Ulusal Isı Bilimi ve Tekniği Kongresi, Edirne, Turkey, 17 - 19 September 1997, vol.2, pp.873-882
- XII. **Concave wall heat transfer and Görtler vortex structure Effects of pre curvature boundary layer and favourable pressure gradient**  
R I C., UMUR H.  
ASME Paper, 11 - 14 June 1990

## Metrics

Publication: 34

Citation (WoS): 249

Citation (Scopus): 297

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