

Prof. Dr. AHMET CİHAT BAYTAŞ

Kişisel Bilgiler

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Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: EMQ-2502-2022

ScopusID: 6701368771

Yoksis Araştırmacı ID: 109903

Eğitim Bilgileri

Doktora, İstanbul Teknik Üniversitesi, Nükleer Enerji Enstitüsü, Nükleer Enerji (Dr), Türkiye 1985 - 1989

Yüksek Lisans, Boğaziçi Üniversitesi, Fen-Edebiyat Fakültesi, Nükleer Mühendislik Bölümü, Türkiye 1982 - 1984

Lisans, İstanbul Devlet Mühendislik Ve Mimarlık Akademisi, İstanbul Devlet Mühendislik Ve Mimarlık Akademisi, Makine Mühendisliği Pr., Türkiye 1975 - 1981

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

Doktora, Altkanal analizinde saptırılmış akış debisinin eksenel taşınım hızı için yeni bir yaklaşım, İstanbul Teknik Üniversitesi, Nükleer Enerji Enstitüsü, Nükleer Enerji (Dr), 1989

Araştırma Alanları

Temel Bilimler, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., İstanbul Gelişim Üniversitesi, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, UÇAK MÜHENDİSLİĞİ , 2021 - Devam Ediyor

Prof. Dr., İstanbul Teknik Üniversitesi, Uçak Ve Uzay Bilimleri, 2002 - 2021

Doç. Dr., İstanbul Teknik Üniversitesi, Nükleer Enerji Enstitüsü, 1996 - 2002

Yrd. Doç. Dr., İstanbul Teknik Üniversitesi, Nükleer Enerji Enstitüsü, 1990 - 1996

Araştırma Görevlisi, İstanbul Teknik Üniversitesi, Nükleer Enerji Enstitüsü, 1985 - 1990

Akademik İdari Deneyim

Bölüm Başkanı, İstanbul Gelişim Üniversitesi, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, UÇAK MÜHENDİSLİĞİ , 2023 -
Devam Ediyor
İstanbul Teknik Üniversitesi, 1999 - 2002

Verdiği Dersler

Statik, Lisans, 2023 - 2024

Termodynamik, Lisans, 2022 - 2023

Uçaklarda Buzlanma, Yüksek Lisans, 2022 - 2023

Taşınım ile Isı geçisi, Yüksek Lisans, 2022 - 2023

ISI GEÇİŞİ, Lisans, 2015 - 2016, 2014 - 2015

HAVA UZAY SİSTEMLERİNDE TAŞINIM OLAYLARI, Doktora, 2015 - 2016, 2014 - 2015

Yönetilen Tezler

AHMET CİHAT B., Numerical simulation of aircraft icing with an adaptive thermodynamic model considering ice accretion, Doktora, H.SİYAHİ(Öğrenci), 2022

AHMET CİHAT B., Kanat profili üzerinde oluşan buzun iki boyutta matematiksel modellenmesi ve sayısal çözümü, Yüksek Lisans, R.DÖKME(Öğrenci), 2019

AHMET CİHAT B., Uçak gövdesinde yalıtım malzemesinin taşınımla ısı geçişine etkisi, Yüksek Lisans, O.ÇİÇEK(Öğrenci), 2018

AHMET CİHAT B., Karmaşık geometriler için eğrisel koordinatlarda sonlu hacimler yöntemi ile korunum denklemlerinin iki boyutlu çözülmesi, Yüksek Lisans, T.ŞENER(Öğrenci), 2018

AHMET CİHAT B., Numerical investigation and thermal analysis of solar cavity receiver, Yüksek Lisans, S.BİLMEZ(Öğrenci), 2018

AHMET CİHAT B., Düşey bir gözenekli kanalda yanmanın sayısal incelenmesi, Yüksek Lisans, T.ERGEN(Öğrenci), 2016

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Entropy generation minimization of hybrid nanofluid mixed convection flow in lid-driven square enclosure with heat-generating porous layer on inner walls**

Çiçek O., Baytaş A. F., BAYTAŞ A. C.

International Journal of Numerical Methods for Heat and Fluid Flow, cilt.34, sa.2, ss.629-665, 2024 (SCI-Expanded)

- II. **Effect of natural convection hybrid nanofluid flow on the migration and deposition of MWCNT-Fe3O4 in a square enclosure**

Çiçek O., Sheremet M. A., BAYTAŞ A. C.

International Journal of Thermal Sciences, cilt.190, 2023 (SCI-Expanded)

- III. **A numerical investigation of the particle behaviors and entropy generation in mixed convection inside a vented enclosure**

Çiçek O., Baytaş A. C.

International Journal of Thermal Sciences, cilt.185, 2023 (SCI-Expanded)

- IV. **An adaptive approach for modelling ice accretion on aircraft**

Siyahi H., BAYTAŞ A. C.

Progress in Computational Fluid Dynamics, cilt.23, sa.4, ss.213-230, 2023 (SCI-Expanded)

- V. **Local thermal non-equilibrium conjugate forced convection and entropy generation in an aircraft cabin with air channel partially filled porous insulation**

Çiçek O., BAYTAŞ A. C.

Aircraft Engineering and Aerospace Technology, cilt.94, sa.2, ss.210-225, 2022 (SCI-Expanded)

- VI. **Nanofluid jet impingement heating of a cooled surface with a constant heat flux in the presence of porous layer**
Çiçek O., BAYTAŞ A. C.
International Journal of Numerical Methods for Heat and Fluid Flow, cilt.32, sa.2, ss.825-849, 2022 (SCI-Expanded)
- VII. **NUMERICAL INVESTIGATION OF NON-PREMIXED COMBUSTION INSIDE A THREE LAYERED POROUS BURNER WITH FLAMELET MODEL ÜÇ KATMANLI GÖZENEKLİ YAKICIDA ÖN KARIŞIMSIZ YANMANIN FLAMELET MODELİ İLE SAYISAL İNCELENMESİ**
Ergen T., Şener T., Tunçer O., BAYTAŞ A. C.
Isı Bilimi Ve Teknigi Dergisi/ Journal of Thermal Science and Technology, cilt.41, sa.1, ss.63-75, 2021 (SCI-Expanded)
- VIII. **Conjugate forced convection in a semi-cylindrical cavity with entropy generation**
Çiçek O., BAYTAŞ A. C.
International Journal of Numerical Methods for Heat and Fluid Flow, cilt.22, sa.7, ss.3879-3902, 2020 (SCI-Expanded)
- IX. **Entropy generation of mixed convection of SWCNT-water nanofluid filled an annulus with a rotating cylinder and porous lining under LTNE**
Çiçek O., Baytaş A. F., BAYTAŞ A. C.
International Journal of Numerical Methods for Heat and Fluid Flow, cilt.31, sa.5, ss.1588-1617, 2020 (SCI-Expanded)
- X. **Non-equilibrium natural convection in a differentially-heated nanofluid cavity partially filled with a porous medium**
Sheremet M. A., Pop I., BAYTAŞ A. C.
International Journal of Numerical Methods for Heat and Fluid Flow, cilt.29, sa.8, ss.2524-2544, 2019 (SCI-Expanded)
- XI. **Experimental study of foam layout effects on NO emission inside a porous burner with three porous media layers**
Şener T., BAYTAŞ A. C.
Indian Journal of Chemical Technology, cilt.26, sa.3, ss.258-260, 2019 (SCI-Expanded)
- XII. **Thermal Non-equilibrium Natural Convection in a Square Enclosure with Heat-Generating Porous Layer on Inner Walls**
Baytaş A. F., BAYTAŞ A. C.
Transport in Porous Media, cilt.120, sa.1, ss.167-182, 2017 (SCI-Expanded)
- XIII. **Numerical investigation of a 5 kW porous medium burner with an integrated heat exchanger**
Ergen T., Tunçer O., BAYTAŞ A. C.
Isı Bilimi Ve Teknigi Dergisi/ Journal of Thermal Science and Technology, cilt.36, sa.2, ss.61-68, 2016 (SCI-Expanded)
- XIV. **Preliminary investigation of a swirl stabilized premixed combustor**
Tunçer O., Kaynaroglu B., Karakaya M. C., Kahraman S., Çetiner Yıldırım N. L. O., BAYTAŞ A. C.
Fuel, cilt.115, ss.870-874, 2014 (SCI-Expanded)
- XV. **Analytical determination of the permeability for slow flow past periodic arrays of cylinders with different cross sections**
BAYTAŞ A. C., Erdem D., Acar H., Çetiner Yıldırım N. L. O., Başçı H.
Journal of Porous Media, cilt.15, sa.11, ss.1009-1018, 2012 (SCI-Expanded)
- XVI. **Minimum entropy generation for laminar boundary layer flow over a permeable plate**
Réveillère A., BAYTAŞ A. C.
International Journal of Exergy, cilt.7, sa.2, ss.164-177, 2010 (SCI-Expanded)
- XVII. **Double diffusive natural convection in an enclosure filled with a step type porous layer: Non-Darcy flow**
BAYTAŞ A. C., Baytaş A. F., Ingham D., Pop I.
International Journal of Thermal Sciences, cilt.48, sa.4, ss.665-673, 2009 (SCI-Expanded)
- XVIII. **Thermal stresses due to conjugate oscillatory free convection in an enclosure**

- Türkmen H. S., BAYTAŞ A. C.
Energy Conversion and Management, cilt.49, sa.12, ss.3439-3446, 2008 (SCI-Expanded)
- XIX. **Free convection in a wavy cavity filled with heat-generating porous media**
Misirlioğlu A., BAYTAŞ A. C., Pop I.
Journal of Porous Media, cilt.9, sa.3, ss.207-222, 2006 (SCI-Expanded)
- XX. **Natural convection inside an inclined wavy enclosure filled with a porous medium**
Misirlioğlu A., BAYTAŞ A. C., Pop I.
Transport in Porous Media, cilt.64, sa.2, ss.229-246, 2006 (SCI-Expanded)
- XXI. **Free convection in a wavy cavity filled with a porous medium**
Misirlioğlu A., BAYTAŞ A. C., Pop I.
International Journal of Heat and Mass Transfer, cilt.48, sa.9, ss.1840-1850, 2005 (SCI-Expanded)
- XXII. **Numerical analysis of buoyant flow in a hemispherical enclosure at high Rayleigh numbers**
Liaqat A., BAYTAŞ A. C.
Heat and Mass Transfer/Waerme- und Stoffuebertragung, cilt.40, sa.1-2, ss.99-104, 2003 (SCI-Expanded)
- XXIII. **Thermal non-equilibrium natural convection in a square enclosure filled with a heat-generating solid phase, non-Darcy porous medium**
BAYTAŞ A. C.
International Journal of Energy Research, cilt.27, sa.10, ss.975-988, 2003 (SCI-Expanded)
- XXIV. **Free convection in a square porous cavity using a thermal nonequilibrium model**
BAYTAŞ A. C., Pop I.
International Journal of Thermal Sciences, cilt.41, sa.9, ss.861-870, 2002 (SCI-Expanded)
- XXV. **Free convection in spherical annular sectors filled with a porous medium**
BAYTAŞ A. C., Grosan T., Pop I.
Transport in Porous Media, cilt.49, sa.2, ss.191-207, 2002 (SCI-Expanded)
- XXVI. **Numerical comparison of conjugate and non-conjugate natural convection for internally heated semi-circular pools**
Liaqat A., BAYTAŞ A. C.
International Journal of Heat and Fluid Flow, cilt.22, sa.6, ss.650-656, 2001 (SCI-Expanded)
- XXVII. **Cooling of molten core material within a pressurised water reactor vessel lower head: Interaction of surface radiation and wall conduction with free convection**
Liaqat A., BAYTAŞ A. C.
International Journal of Engineering Science, cilt.39, sa.18, ss.2089-2102, 2001 (SCI-Expanded)
- XXVIII. **Characteristics of conjugate free convection in a corium pool formed during a severe reactor accident**
Liaqat A., BAYTAŞ A. C.
International Journal of Engineering Science, cilt.39, sa.12, ss.1351-1360, 2001 (SCI-Expanded)
- XXIX. **Conjugate natural convection in a square enclosure containing volumetric sources**
Liaqat A., BAYTAŞ A. C.
International Journal of Heat and Mass Transfer, cilt.44, sa.17, ss.3273-3280, 2001 (SCI-Expanded)
- XXX. **Conjugate natural convection in a square porous cavity**
BAYTAŞ A. C., Liaqat A., Groşan T., Pop I.
Heat and Mass Transfer/Waerme- und Stoffuebertragung, cilt.37, sa.4-5, ss.467-473, 2001 (SCI-Expanded)
- XXXI. **Natural convection in a trapezoidal enclosure filled with a porous medium**
BAYTAŞ A. C., Pop I.
International Journal of Engineering Science, cilt.39, sa.2, ss.125-134, 2001 (SCI-Expanded)
- XXXII. **Heat transfer characteristics of internally heated liquid pools at high Rayleigh numbers**
Liaqat A., BAYTAŞ A. C.
Heat and Mass Transfer/Waerme- und Stoffuebertragung, cilt.36, sa.5, ss.401-405, 2000 (SCI-Expanded)
- XXXIII. **Free convection in oblique enclosures filled with a porous medium**
BAYTAŞ A. C., Pop I.
International Journal of Heat and Mass Transfer, cilt.42, sa.6, ss.1047-1057, 1999 (SCI-Expanded)

XXXIV. Optimization in an inclined enclosure for minimum entropy generation in natural convection

BAYTAŞ A. C.

Journal of Non-Equilibrium Thermodynamics, cilt.22, sa.2, ss.145-155, 1997 (SCI-Expanded)

Düger Dergilerde Yayınlanan Makaleler

I. Buoyancy-driven flow in an enclosure containing time periodic internal sources

BAYTAŞ A. C.

Heat and Mass Transfer/Waerme- und Stoffuebertragung, cilt.31, sa.3, ss.113-119, 1996 (Scopus)

II. Comparison of prediction and Tapucu experimental data for determination of the axial velocity in the gap region

BAYTAŞ A. C.

Nuclear Technology, cilt.90, sa.3, ss.417-425, 1990 (Scopus)

Kitap & Kitap Bölümleri

I. TAŞINIM İLE ISI GEÇİŞİ

BAYTAŞ A. C.

Nobel akademik yayincılık eğitim danışmanlık tiç. ltd. sti, İstanbul, 2015

II. ENTROPY GENERATION IN POROUS MEDIA

BAYTAŞ A. C., BAYTAŞ A. F.

TRANSPORT PHENOMENA IN POROUS MEDIA VOL III, D.B. INGHAM VE 1. POP, Editör, ELSEVIER, Amsterdam, ss.201-226, 2005

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. Numerical investigation on Non Premixed Combustion Inside a Three Layered Porous Burner with Flamelet Model, 4th International conference on computational and experimental science and engineering (ICCESEN-2017)

ERGEN T., Sener T., TUNÇER O., BAYTAŞ A. C.

International conference on computational and experimental science and engineering, Antalya, Türkiye, 4 - 08 Ekim 2017

II. Numerical Investigation of Non-Premixed Combustion Inside a Three Layered Porous Burner With Flamelet Model

ERGEN T., ŞENER T., TUNÇER O., BAYTAŞ A. C.

ICCESEN 2017 - 4TH INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING, Antalya, Türkiye, 4 - 08 Ekim 2017

III. Experimental study a porous burner with three porous layers, 4th International conference on computational and experimental science and engineering (ICCESEN-2017) 4-8 October 2017, Antalya -Türkiye.

Sener T., BAYTAŞ A. C.

4th International conference on computational and experimental science and engineering, Antalya, Türkiye, 4 - 08 Ekim 2017

IV. Muhittin Celep, Yusuf Ata, A. Cihat Baytaş, Numerical study on one dimensional pyrolyzing thermal protection systems, 10th Mediterranean Combustion Symposium, Naples, Italy, 17-21, 2017.

BAYTAŞ A. C., Ata Y., Celep M.

10th Mediterranean Combustion Symposium, Naples, Italya, 17 - 21 Temmuz 2017

V. Effect of radiation on the solutions of Sandia Flame D with the flamelet model

- Serkan M., TUNÇER O., BAYTAŞ A. C.
8th International Symposium on Turbulence, Heat and Mass Transfer, 15 - 18 Eylül 2015
- VI. **Efect of Radiation on the Solutions of SANDIAflame D with the Flamelet Model**
SERKAN M., TUNÇER O., BAYTAŞ A. C.
8th ANKARA INTERNATIONAL AEROSPACE CONFERENCE AIAC-2015-00010-12 September 2015 - METU, Ankara
TURKEY, Ankara, Türkiye, 10 - 12 Eylül 2015
- VII. **DÜŞEY BİR GÖZENEKLİ KANALDA YANMAMNIN ISIL DENGESİZ MODEL İLE SAYISAL OLARAK
İNCELENMESİ**
ERGEN T., TUNÇER O., BAYTAŞ A. C.
ULIBTK'15 20. Ulusal Isı Bilimi ve Tekniği Kongresi 02-5 Eylül 2015, BALIKESİR, Balıkesir, Türkiye, 2 - 05 Eylül 2015
- VIII. **SANDIA D ALEV SİMÜLASYONUNDA RADYASYON ETKİSİNİN FLAMELET MODELİ KULLANILARAK
İNCELENMESİ**
MENGİ S., TUNÇER O., BAYTAŞ A. C.
ULIBTK'15 20. Ulusal Isı Bilimi ve Tekniği Kongresi 02-5 Eylül 2015, BALIKESİR, Balıkesir, Türkiye, 2 - 05 Eylül 2015
- IX. **Numerical and experimental investigation of a porous medium burner**
Ata Y., BAYTAŞ A. C.
International Symposium on Convective Heat and Mass Transfer, CONV 2014, Kusadasi, Türkiye, 8 - 13 Haziran
2014, ss.1163-1174
- X. **Numerical investigation of a 5 kw power porous medium burner**
Ergen T., Tunçer O., BAYTAŞ A. C.
International Symposium on Convective Heat and Mass Transfer, CONV 2014, Kusadasi, Türkiye, 8 - 13 Haziran
2014, ss.1077-1088
- XI. **A numerical study of combined natural and Marangoni convection in a square cavity**
Çiçek K., BAYTAŞ A. C.
8th International Navigational Symposium on Marine Navigation and Safety of Sea Transportation, Trans-Nav
2009, Gdynia, Polonya, 17 - 19 Haziran 2009, ss.517-522
- XII. **Transient conjugate heat transfer in a 2-D pool of molten core material of a light water reactor**
Liaqat A., BAYTAŞ A. C.
European Congress on Computational Methods in Applied Sciences and Engineering, ECCOMAS 2000, Barcelona,
İspanya, 11 - 14 Eylül 2000
- XIII. **The resonance of natural convection in a cavity containing time periodic internal sources**
BAYTAŞ A. C.
International Symposium on Advances in Computational Heat Transfer, CHT 1997, Çeşme, Türkiye, 26 - 30 Mayıs
1997

Ödüller

Baytaş A. C., Stanford Üniversitesi'nin her yıl gerçekleştirdiği "Dünyanın En Etkili Bilim İnsanları" listesi açıklandı.
"Kariyer Boyu Etki" ve "Yıllık Etki" olarak iki kategoride yayımlanan listede, İstanbul Gelişim Üniversitesi'nden 4
akademisyen yer aldı., Stanford Üniversitesi, Ekim 2023