



Assist. Prof. Dr. İBRAHİM KOÇ

Mahmutbey Technology Campus

+90 (212) 604 01 00 / 4102

Interview Hours: Salı- 13:00 - 14:00

ibrahim.koc@altinbas.edu.tr

EDUCATIONAL INFORMATION

Degree	University	Department	Year(s)
Doctoral Degree	Istanbul Technical University	Mechanical Engineering(Phd)	1999 - 2006
Master's Degree	Istanbul Technical University	Mechanical Engineering(Master's) (tezli)	1991 - 1994
Bachelor's Degree	Istanbul Technical University	Mechanical Engineering	1987 - 1991

RESEARCH AREAS

Heat Transfer, Thermodynamics, Gas Turbines, Internal Combustion Engines

ACADEMIC DUTIES

Duty	University	Area	Year(s)
Doctor Faculty Member	Altinbas University	Department of Mechanical Engineering	2018 -
Doctor Faculty Member	Istanbul Gelisim University	Aircraft Maintenance and Repair Department	2016 - 2018
Assistant Professor	Air Force Academy	Department of Aerospace Engineering	2008 - 2016
Lecturer (Phd)	Air Force Academy	Department of Aerospace Engineering	2006 - 2008
Lecturer	Air Force Academy	Department of Aerospace Engineering	2000 - 2006

ADMINISTRATIVE DUTIES

Duty	University	Year(s)
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ACADEMIC AND PROFESSIONAL MEMBERSHIPS

Organisation	Membership	Year(s)
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NON-UNIVERSITY EXPERIENCE

Country	Organisation	Duty	Year(s)
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BOOKS

ARTICLES

Thermal Performance Improvement of Shell and Helical Coil Heat Exchanger

ABED TAREQ H., KOÇ İBRAHİM

AURUM JOURNAL OF ENGINEERING SYSTEMS AND ARCHITECTURE, 2021

National

Phase Change Material (Pcm) Effect on Photovoltaic Performance of Solar Panels

ALI MENA MUAAD ALI, KOÇ İBRAHİM

AURUM JOURNAL OF ENGINEERING SYSTEMS AND ARCHITECTURE, 2021

National

ARTICLES

Modeling And Simulation to Investigate the Thermal Efficiency of a Parabolic Solar Trough Collector with Absorber Tube Inserted Twisted Tape System

ABBAS Mohammed Faris Abbas, KOÇ İBRAHİM

AURUM JOURNAL OF ENGINEERING SYSTEMS AND ARCHITECTURE, 2021

International

Evaluation of The Thermal And Hydraulic Performance of A Double Pipe Heat Exchanger By Use of Various Porous Structures

ALI Ali Azeez Ali, KOÇ İBRAHİM, ABBAS Ehsan Fadhil

International Journal of Scientific & Technology Researc, 2020

International

Experimental study the influence of surface shape and roughness of different materials on thermal contact conductance in single and multilayers wall.

AWAD Laith Yahya, KOÇ İBRAHİM, JAWAD Salah Kareem

AURUM JOURNAL OF ENGINEERING SYSTEMS AND ARCHITECTURE, 2020

National

Bina Enerji Tüketiminin Isıl Modellenmesi

KOÇ İBRAHİM, SAYAR ERSİN, PARMAKSIZOĞLU İSMAİL CEM

Tesisat Mühendisliği, 2018

National

Experimental Investigation of Velocity and Turbulence Variations in Inclined Jet in Cross-Flow

KOÇ İBRAHİM

Gazi University Journal of Science, 2017

International

Thermal Stresses on a Reginal Cooling Plate

KOÇ İBRAHİM

International Journal of Engineering Technologies-IJET, 2017

International

The use of liquefied petroleum gas lpg and natural gas in gas turbine jet engines

KOÇ İBRAHİM

Advances in Energy Research, 2015

International DOI: 10.12989/eri.2015.3.1.031

Free Cooling in the Water Cooling Towers: a Case Study for Istanbul, Turkey

KOÇ İBRAHİM, PARMAKSIZOĞLU İSMAİL CEM

Gazi University Journal of Science, 2013

International

Sıvı Kristalin Isı Transferi Uygulamalarında Kullanılması

KOÇ İBRAHİM

Havacılık ve Uzay Teknolojileri Dergisi, 2012

National

Çift Etkili LiBr H₂O Akışkanlı Absorpsiyonlu Soğutma Sisteminde Termodinamiksel Büyüklüklerin Sistem Performansına Etkileri

SOLUM CAFER, KOÇ İBRAHİM, ALTUNTAŞ YILMAZ

Havacılık ve Uzay Teknolojileri Dergisi, 2011

National

Investigation of film cooling effectiveness and heat transfer coefficient for rectangular holes with two rows

KOÇ İBRAHİM, İSLAMOĞLU YAŞAR, AKDAĞ ÜNAL

Aircraft Engineering and Aerospace Technology, 2009

International

ARTICLES

Experimental study on forced convection heat transfer characteristics in a converging diverging heat exchanger channel

TAYMAZ İMDAT,KOÇ İBRAHİM,İSLAMOĞLU YAŞAR

Heat and Mass transfer, 2008

International

Experimental and numerical investigation of film cooling effectiveness for rectangular injection holes

KOÇ İBRAHİM

Aircraft Engineering and Aerospace Technology, 2007

International

Eğrisel Yüzeyler Üzerinde Film Soğutmanın Sayısal İncelenmesi

KOÇ İBRAHİM,PARMAKSIZOĞLU İSMAİL CEM

İtü Dergisi, 2006

National

Silindirik Enjeksiyon Deliklerinde Film soğutma İncelenmesi

KOÇ İBRAHİM

Havacılık ve Uzay Teknolojileri Dergisi, 2006

National

Numerical Investigation of Film Cooling Effectiveness on the Curved Surface

KOÇ İBRAHİM,PARMAKSIZOĞLU İSMAİL CEM,ÇAKAN MURAT

Energy Conversion and Management, 2006

International

Dikdörtgen Delikli Düz Levha Üzerinde Film Soğutmanın Deneysel İncelenmesi

KOÇ İBRAHİM,PARMAKSIZOĞLU İSMAİL CEM,İSLAMOĞLU YAŞAR

Isı Bilimi ve Tekniği Dergisi, 2006

National

Dikdörtgen Delikli Düz Levha Üzerinde Film Soğutmanın Deneysel İncelenmesi

KOÇ İBRAHİM,İSLAMOĞLU YAŞAR,PARMAKSIZOĞLU İSMAİL CEM

ISI Bilimi ve Tekniği Dergisi-Journal of Thermal Science and Technology, 2006

International

PROCEEDINGS

Temperature Optimization on LED circuit Boards

DAŞDEMİR Can, KOÇ İBRAHİM

8th International Academic Studies Conference., 2022

International

BİNA ENERJİ TÜKETİMİNİN ISIL MODELLENMESİ

KOÇ İBRAHİM,SAYAR ERSİN,PARMAKSIZOĞLU İSMAİL CEM

13. ULUSAL TESİSAT MÜHENDİSLİĞİ KONGRESİ, 2017

National

Electrothermal Propulsion System Selection for Communication Satellite NSSK Maneuver Using Multi Criteria Decision Making Method

ÇELİK MURAT,ÖZKAN ÖMER,KOÇ İBRAHİM

7th International Conference on Recent Advances in Space Technologies “Emerging Private Space” RAST 2015, 2015

International

Hidrojenle Çalışan İHA nın Kavramsal Tasarımı ve İmalatı

KARABÜK Salih Burak, KÖKALP Emir, KOÇ İbrahim

Havacılıkta İleri teknolojiler Konferansı(HİTEK 2014), 2014

National

PROCEEDINGS

Gaz Türbin Kanadı Üzerinde İki Boyutlu Sıcaklık Dağılımının Çıkartılması

KOÇ İbrahim, ALTUNTAŞ Yılmaz, SOLUM Cafer

IV. Ulusal Havacılık ve Uzak Konferansı(UHUK 2012), 2012

National

Possible Applications of Thermal Barrier Coatings in Space Practices

PIRGE GÜRSEV, KOÇ İBRAHİM, BAŞARAN ALİ

3rd International Conference on Recent Advances in Space Technologies "Space for a More Secure World" RAST 2007, 2007

International

İki Sıralı Dikdörtgen Deliklerde Film Soğutma Etkenliği İncelemesi

KOÇ İBRAHİM, İSLAMOĞLU YAŞAR

16. Ulusal Isı Bilimi ve Tekniği Kongresi (ULIBTK'07), 2007

National

Düz Bir Plaka Üzerinde Film Soğutmanın Sayısal İncelenmesi

KOÇ İBRAHİM, PARMAKSIZOĞLU İSMAİL CEM

Havacılıkta İleri Teknolojiler ve Uygulamaları Sempozyumu (HİTEK), 2004

National

Eğrisel Yüzeyde Film Soğutmanın Sayısal İncelenmesi

KOÇ İBRAHİM, PARMAKSIZOĞLU İSMAİL CEM

Havacılık Sempozyumu, 2004

National

PROJECTS

Uzak İtme Sistemi Olarak Mikrodalga Elektrotermal Roketin Tasarımı, Üretimi Ve Testi (Researcher)

Tübitak 1005, 05.09.2014 - 28.12.2018

National

Completed

THESIS SUPERVISION

NUMERICAL ANALYSIS OF PHOTOVOLTAIC PANEL EFFICIENCY IN THE ARID CLIMATE OF KUWAIT

ABDALAZIZ Z. H. SHEHADA

2025

Master's Degree

INVESTIGATION OF HEAT TRANSFER ENHANCEMENT BY COMPILING A HELICAL PIPE EXCHANGER TO THE OUTER SHELL OF SHELL AND TUBE HEAT EXCHANGER

MOHAMMED SALIH JABBAR JABBAR

2024

Master's Degree

AN INVESTIGATION ON THE IMPACT OF NATURAL VENTILATION ON THE BUILDING THERMAL PERFORMANCE IN DIFFERENT CLIMATE CONDITIONS USING CFD ANALYSIS

MOHAMMED YOUNUS HUSSEIN AL-HAMDONY

2024

Master's Degree

Improving thermal efficiency of photovoltaic thermal systems

MOHAMMED ABBAS FADHIL AL-KHAFI

2023

Master's Degree

SIMULATION AND NUMERICAL ANALYSIS OF HEAT TRANSFER IN BUILDING COMPONENTS

MAZIN ALI MAHMOOD MAHMOOD

2023

Master's Degree

EXPERIMENTAL AND NUMERICAL STUDY FOR ENHANCEMENT HEAT TRANSFER IN CHANNEL BY INSERTED TAPE DIAGONALLY WITH FIXED RIBS

MOHAMMED HUSSEIN RADHI AL-ZUBAYD

2023

Master's Degree

THESIS SUPERVISION

5-function stop lamp thermal analysis

CAN DAŞDEMİR

2022 Master's Degree

A numerical simulation and analysis of indoor thermal environment around an occupant for different air supply and exhaust modes

DHAFAER SAMEER FATHULLAH AMEEN

2022 Master's Degree

Experimental and numerical study of solar water heater enhancement integrated with phase change material and heat exchanger

FAHAD SAADOON FAHAD AL-BEHADILI

2022 Master's Degree

Investigation of heat transfer enhancement in a tube with twisted tape by using concentrating solar power

MOHAMMED FARIS ABBAS ABBAS

2021 Master's Degree

Modifying a generator and designing a solar collector

MARWAH AL-DAYYENI

2021 Master's Degree

Numerical analysis of the influence of material and geometric parameters on the thermal efficiency of heat sink

IDRIS ABDULHADI EMHAMED MUFTAH

2021 Master's Degree

Thermal performance improvement of shell and helical coil heat exchanger

TAREQ H. ABED

2021 Master's Degree

Experimental and numerical study of heat transfer in double-pipe helical heat exchanger using nano-liquid

ALI ZAEEM FEZEA ALDAHLAH

2021 Master's Degree

Yeni Vortex Jeneratörü Kullanarak Türbülanslı Akışkan Akışı ve Isı Transferi Geliştirmesi

BASSAM AMER ABDULAMEER SHLASH

2021 Master's Degree

Numerical investigation of heat transfer, pressure drop, and exergy for plate heat exchanger using nanofluids

HATEM SHABAN MESBAH SHINKADA

2021 Master's Degree

EVALUATION OF THERMAL PERFORMANCE AND PRESSURE DROP FOR DOUBLE PIPE HEAT EXCHANGER USING DIFFERENT TYPES OF POROUS MEDIA

ALI AZEEZ ALI ALI

2020 Master's Degree

EXPERIMENTAL STUDY THE INFLUENCE OF SURFACE SHAPE AND ROUGHNESS OF DIFFERENT MATERIALS ON THERMAL CONTACT CONDUCTANCE IN SINGLE AND MULTILAYERS WALL

LAITH YAHYA AWAD AWAD

2020 Master's Degree

Enhancement of air cooling in tube fitted with multi-spring wire and study friction factor and exergy efficiency numerically

MAHMOOD ALI MAHMOOD

2020 Master's Degree

Numerical study of thermal performance and pressure drop of particle solar receiver enhancement with helical screw vortex generator

MUSTAFA H. QASIM

2020 Master's Degree

THESIS SUPERVISION

Effect on photovoltaic performance of solar panels

MENA MUAAD ALI ALI

2020 Master's Degree

Mikrodalga elektrotermal itki sistemi:tasarımı, üretimi ve performans analizi

MEHMET SERHAN YILDIZ

2016 Doctorate

Çeşitli kanat ucu modelleri için sürükleme kuvvetinin azaltılmasının hesaplamalı akışkanlar dinamiği yöntemleri ile incelenmesi

ERKAN YILDIZ

2015 Master's Degree

CN-235 Casa uçağı kıvrık kanat tasarımının hesaplamalı akışkanlar dinamiği ile incelenmesi

İLYAS KARAOĞLU

2015 Master's Degree

Bir haberleşme uydusunu yörüngeye yerleştirecek hibrid yakıtlı roket tasarımı

İLHAN TURCAN

2013 Master's Degree

NANO İHA'ların Kullanım Etkinliği ve Muharebe Ortamlarında Kullanım Alanları

Aytuğ AKKOR

2011 Master's Degree

COURSES

Course Type	Course Code	Course Name
Bachelor's Degree	ME118	THERMODYNAMICS I
Master's Degree	ME508	CONVECTION HEAT TRANSFER
Bachelor's Degree	ME302	HEAT TRANSFER
Bachelor's Degree	ME492	MECHANICAL ENGINEERING DESIGN PROJECT II
Master's Degree	ME509	RADIATION HEAT TRANSFER
Bachelor's Degree	ME203	THERMODYNAMICS II
Bachelor's Degree	MATH317	NUMERICAL ANALYSIS
Master's Degree	ME507	CONDUCTION HEAT TRANSFER
Bachelor's Degree	ME491	MECHANICAL ENGINEERING DESIGN PROJECT I
Bachelor's Degree	ME481	SPECIAL TOPICS IN MECHANICAL ENGINEERING I

PERSONAL INFORMATION

CONTACT INFORMATION

Interview Hours: Salı- 13:00 - 14:00

Mahmutbey Technology Campus

Mahmutbey Dilmenler Caddesi, No:26, 34217 Bağcılar - İSTANBUL

+90 (212) 604 01 00 / 4102